

SERVICE MANUAL

VHF/UHF FM TRANSCEIVER

IC-91A

VHF/UHF DIGITAL TRANSCEIVER

IC-91AD

S-14230HZ-C1 May. 2006

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Icom Inc.

INTRODUCTION

This service manual describes the latest service information for the IC-91A VHF/UHF FM TRANSCEIVER, IC-91AD VHF/UHF DIGITAL TRANSCEIVER at the time of publication.

MODEL	VERSION	SYMBOL
IC-91AD	U.S.A.	USA
IC-91AD	Export	EXP
	U.S.A.	USA-1
	Taiwan	TPE
IC-91A	Korea	KOR
10-91A	Australia	AUS
	Evport	EXP-1
	Export	EXP-2

To upgrade quality, all electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

CAUTION

NEVER connect the transceiver to an AC outlet or to a DC power supply 3.7 V. Such a connection could cause a fire or electric hazard.

DO NOT expose the transceiver to rain, snow or any liquids.

DO NOT reverse the polarities of the power supply when connecting the transceiver.

DO NOT apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.

ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

- 1. 10-digit Icom parts number
- 2. Component name and informations
- 3. Equipment model name and unit name
- 4. Quantity required

<SAMPLE ORDER>

5030002880 LCD HLM7972-010100 IC-91A Main unit 5 pieces 8810009560 Screw PH BT M2×6 ZK IC-91A Chassis 10 pieces

Addresses are provided on the inside back cover for your convenience.



REPAIR NOTES

- 1. Make sure the problem is internal before disassembling the transceiver.
- 2. **DO NOT** open the transceiver until the transceiver is disconnected from its power source.
- 3. DO NOT force any of the variable components. Turn them slowly and smoothly.
- 4. DO NOT short any circuits or electronic parts. An insulated turning tool MUST be used for all adjustments.
- 5. **DO NOT** keep power ON for a long time when the transceiver is defective.
- 6. **DO NOT** transmit power into a signal generator or a sweep generator.
- 7. **ALWAYS** connect a 30 dB to 40 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
- 8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.

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TABLE OF CONTENTS

SECTION	1	SPECIFICATIONS	
SECTION	2	INSIDE VIEWS	
SECTION	3	DISASSEMBLY INSTRUCTIONS	
SECTION	4	UT-121 UNINSTALLATION	
SECTION	5-1 5-2 5-3 5-4 5-5 5-6	CIRCUIT DESCRIPITON RECEIVER CIRCUITS. TRANSMITTER CIRCUITS PLL CIRCUITS OTHER CIRCUITS POWER SUPPLY CIRCUITS. PORT ALLOCATION	5-2 5-4 5-5 5-5
SECTION	6 6-1 6-2	ADJUSTMENT PROCEDURES PREPARATION	
SECTION	7	PARTS LIST	
SECTION	8	MECHANICAL PARTS AND DISASSEMBLY	
SECTION	9	SEMICONDUCTOR INFORMATION	
SECTION	10-1 10-2	MAIN UNIT RF UNIT. UT-121 (Optional product; CODEC UNIT for IC-91AD).	10-1 10-1 10-1
SECTION	11	BLOCK DIAGRAM	
SECTION	12 12-1 12-2 12-3 12-4 12-5	RF UNITVCO UNIT	12-2 12-3 12-4

SECTION 1 SPECIFICATIONS

■ GENERAL

Frequency coverange

(unit: MHz)

Version	A band	B band
		Tx: 144–148, 420–450*1 Rx: 118–174*², 350–470*1
Taiwan	144–146, 430–432	144-146, 430-432
Korean	144–146, 430–440	144-146, 430-440
Australian	Tx: 144–148, 420–450*3 Rx: 0.495–999.990*2,*3	Tx: 144–148, 420–450*3 Rx: 118–174*², 350–470*3
Export	Tx: 137–174*2, 400–470*3 Rx: 0.495–999.990*2,*3	Tx: 137–174*2, 400–470*3 Rx: 118–174*2, 350–470*3

^{*1}Guaranteed 440-450 MHz only, *2Guaranteed 144-148 MHz only, *3Guaranteed 430-440 MHz only

Operating mode : FM, AM*, WFM*, DV[†] (*RX only)

• Memory channels : 1304 channels

(Incl. 100 scan edges and 4 call ch.)

• Frequency stability : ±2.5 ppm

(-20°C to +60°C; -4°F to 140°F) : 5[†]/6.25[†]/8.33[†]/9[†]/10/12.5/15/20/ 25/30/50/100/125 and 200 kHz

• Antenna impedance : 50 Ω (SMA type)

• Power supply : 10.0–16.0 V DC for external DC

power, or specified Icom's battery

pack

Digital transmission speed : 4.8 kbps[†]
 Voice coding speed : 2.4 kbps[†]

• Current drain (at 7.4 V DC) :

• Tuning steps

TRANSMIT VHF High 2.1 A typ.

Low 0.8 A (approx.)
UHF High 2.2 A typ.
Low 0.8 A (approx.)

RECEIVE Stand-by 170 mA typ.

(dualwatch; FM/DV[†])

Max. audio 340 mA typ.

(dualwatch; FM/DV[†])

Operating temp. range : -20°C to +60°C; -4°F to 140°F
 Dimensions : 58.4 (W) x 103 (H) x 34.2 (D) mm

(projections not included) 2.9/32 (W) $\times 4.1/16$ (H) $\times 1.11/32$ (D) in

• Weight (approx.) : 300 g; 10.6 oz

(antenna, BP-217 included)

■ TRANSMITTER

• Output power (at 7.4 V DC) : 5.0 W (High)

0.5 W (Low; aprrox.)

modulation

DV[†] GMSK reactance frequency

modulation

• Maximum deviation : ±5.0 kHz (FM wide: approx.)

±2.5 kHz (FM narrow: approx.)

• Spurious emissions : Less than -60 dB

• Ext. mic. connector : 3-conductor 2.5 (d) mm; $(^1/_{10})^2$ k Ω

■ RECEIVER

• Receiving system :

FM/AM/DV[†] Double-conversion

superheterodyne system

WFM Triple-conversion

superheterodyne system

Intermediate frequencies

1st A band 61.65/59.25 MHz (WFM)

B band 46.35 MHz

2nd 450 kHz/13.35 MHz (WFM)

3rd 1.95 MHz (WFM only)

Sensitivity : (except spurious points)

- AM (1 kHz/30% Mod.; 10 dB S/N) 0.495–4.995 MHz 1.3 μV typ. 5.000–29.995 MHz 0.56 μV typ. 118.000–137.000 MHz 0.5 μV typ. 222.000–246.995 MHz 0.79 μV typ. 247.000–329.995 MHz 1 μV typ.

- FM (1 kHz/3.5 kHz Dev.; 12 dB SINAD) VHF (Amateur band only) 0.14 μV typ. UHF (Amateur band only) 0.16 μV typ. 1.625–29.995 MHz 0.4 μV typ. 30.000–117.995 MHz 0.25 μV typ. 118.000–173.995 MHz 0.18 μV typ. 174.000–349.995 MHz 0.32 μV typ. 350.000–469.995 MHz 0.22 μV typ. 470.000–599.995 MHz 0.32 μV typ. 600.000–999.990 MHz 0.56 μV typ.

WFM (1 kHz/52.5 kHz Dev.; 12 dB SINAD)
 76.000–108.000 MHz 1 μV typ.
 175.000–221.995 MHz 1.8 μV typ.
 470.000–770.000 MHz 2.5 μV typ.

DV (digital/PN9 4.8 kbps; BER 1%)[†]
 Amateur bands 0.22 µV typ.

• Selectivity :

FM (Wide), AM More than 50 dB FM (Narrow), DV[†] More than 45 dB

WFM More than 300 kHz/–3 dB Less than 700 kHz/–20 dB

Spurious image rejection :

VHF More than 60 dB UHF More than 50 dB (IF: More than 60 dB)

Mars the 2000 1114

• Audio output power : More than 200 mW

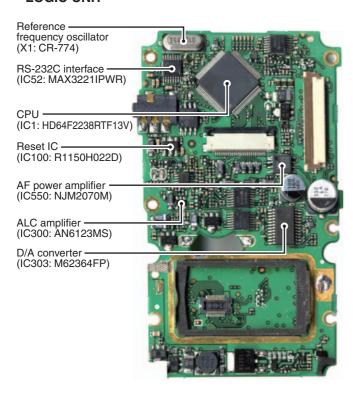
(at 7.4 V DC) (at 10% distortion with an 8 Ω load) • Ext. speaker connector : 3-conductor 3.5 (d) mm; (1/8")/8 Ω

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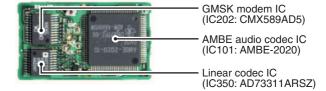
[†]Available for the IC-91AD or when UT-121 is installed into the IC-91A. All stated specifications are subject to change without notice or obligation.

SECTION 2 INSIDE VIEWS

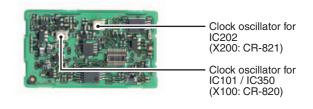
LOGIC UNIT



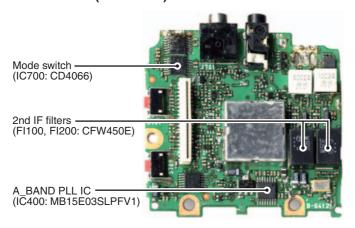
• UT-121 (Optional Product ; CODEC UNIT for IC-91AD) (TOP VIEW)



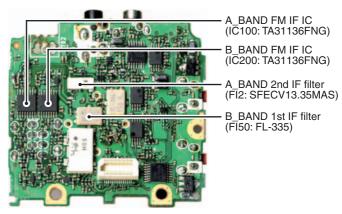
• UT-121 (Optional Product ; CODEC UNIT for IC-91AD) (BOTTOM VIEW)



• MAIN UNIT (TOP VIEW)

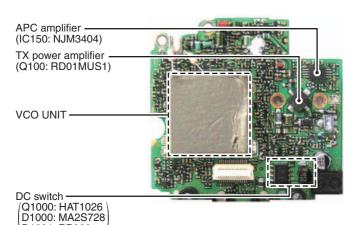


• MAIN UNIT (BOTTOM VIEW)



• RF UNIT (TOP VIEW)

D1001: RB060



• RF UNIT (BOTTOM VIEW)

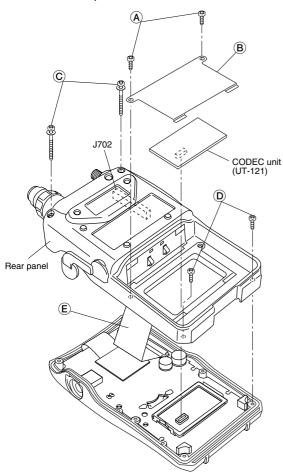


A_BAND 1st IF mixer (IC900: μPC2757TB)

SECTION 3 DISASSEMBLY INSTRUCTIONS

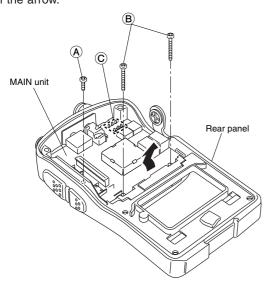
• Removing the rear panel

- ② Remove the CODEC unit (UT-121) if installed. (See the page 4-1 "②" for uninstallation)
- 3 Unscrew 2 screws © and 2 screws D.
- 4 Disconnect the flat cable © from MAIN unit J702.
- 5 Remove the rear panel.



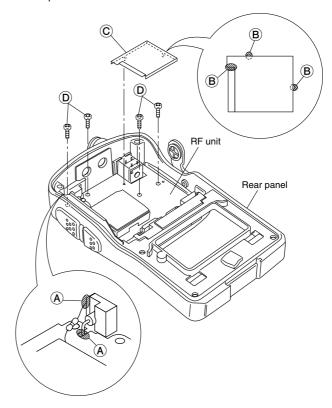
• Removing the MAIN unit

- ① Unscrew the screw A and 2 screws B.
- 2 Unsolder 6 points ©.
- ③ Remove the MAIN unit from the rear panel in the direction of the arrow.



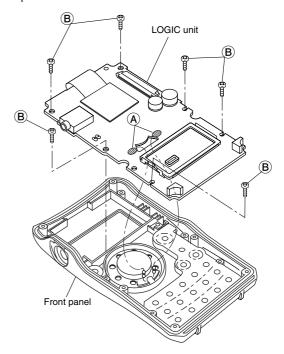
• Removing the RF unit

- 1 Unsolder 2 points (A).
- 2 Unsolder 3 points B and remove the shield plate C.
- ③ Unscrew 4 screws ① and remove the RF unit from the rear panel



• Removing the LOGIC unit

- 1 Unsolder 2 points (A).
- ② Unscrew 6 screws ® and remove the LOGIC unit from the front panel.

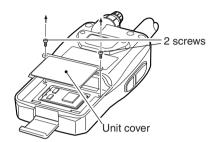


SECTION 4 UT-121 UNINSTALLATION

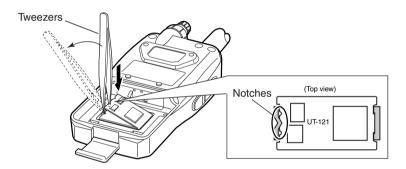
RECOMMENDATION:

Critical technique is necessary for the UT-121 uninstallation, therefore, we recommend you to uninstall it at your dealer or service center.

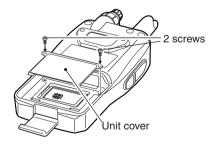
- 1) Turn the power OFF, and remove the battery pack.
- 2 Unscrew 2 screws to remove the unit cover.



③ Insert the tweezers into the notches of the UT-121, and remove it as shown below.



4 Screw 2 screws to assemble the unit cover.



SECTION 5 CIRCUIT DESCRIPTION

5-1 RECEIVER CIRCUITS

This transceiver has two receiving lines called A_BAND and B_BAND for dualwatch capability. A_BAND corresponds to FM/WFM/AM mode receiving within 0.495–999 MHz range, and B_BAND corresponds to FM/FM-N/AM/DV mode receiving within 118–174 MHz and 350–470 MHz ranges.

5-1-1 RF CIRCUITS (RF UNIT)

This transceiver has six RF circuits to provide wide receiving range. The received signals from the antenna connector (CHASSIS; J1) are applied to each RF circuit for the frequency coverage, and amplified within the frequency coverage.

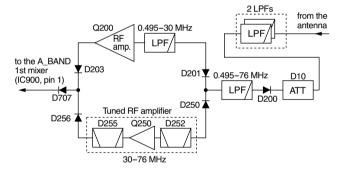
• While receiving 0.495-76 MHz

The received signals of 76 MHz and below are passed through the low-pass filter (LPF; L200, L201, C201–C204) via the two LPFs (L1–L3, C1–C6; L5–L7, C10–C14), attenuator (D10) and band switch (D200).

The 0.495–30 MHz band signals are passed through the band switch (D201), then applied to the RF amplifier (Q200) via the low-pass filter (L202, L203, C205–C209). The 30–76 MHz band signals are applied to the tuned RF amplifier (Q250, D252, D255) via the band switch (D250).

The amplified signals are applied to the A_BAND 1st mixer (IC900, pin 1) via the band switches (D203 or D256, D707).

- 0.495-76 MHz -



While receiving 76–118 MHz or 174–260 MHz

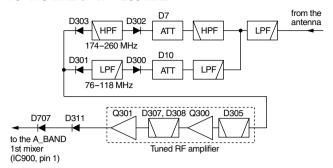
The 76–118 MHz band signals are passed through the two LPFs (L1–L3, C1–C6; L5–L7, C10–C14), attenuator (D10) and low-pass filter (L300, L301, C301–C305) via the band switch (D300).

The 174–260 MHz band signals are passed through the LPF (L1–L3, C1–C6), HPF (L4, C7–C9), attenuator (D7) and high-pass filter (HPF; L302, L303, C306–C310) via the band switch (D302).

The filtered signals are applied to the tuned RF amplifier (Q300, Q301, D305, D307, D308) via the band switch (D301/D303).

The amplified signals are applied to the A_BAND 1st mixer (IC900, pin 1) via the band switches (D311, D707).

- 76-118 MHz or 174-260 MHz -



• While receiving 118-174 MHz

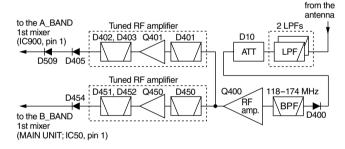
The 118–174 MHz band signals are passed through the two LPFs (L1–L3, C1–C6; L5–L7, C10–C14) and attenuator (D10), then applied to the RF amplifier (Q400) via the band switch (D400) and bandpass filter (BPF; L400, L405, C400, C401).

The amplified signals are applied to the tuned RF amplifiers for A_BAND (Q401, D401–D403) and B_BAND (Q450, D450–D452).

The amplified signals by Q401 are then applied to the A_BAND 1st mixer (IC900, pin 1) via the band switches (D405, D509).

The amplified signals by Q450 are then applied to the B_BAND 1st mixer (MAIN UNIT; IC50, pin 1) via the band switch (D454) and J1001 (pin 15).

- 118-174 MHz -

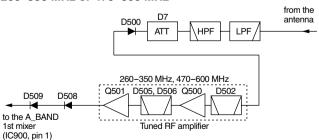


While receiving 260–350 MHz or 470–600 MHz

The 260–350 MHz and 470–600 MHz band signals passed through the LPF (L1–L3, C1–C6) and HPF (L4, C7–C9), then applied to the tuned RF amplifier (Q500, Q501, D502, D505, D506) via the attenuator (D7) and band switch (D500).

The amplified signals are applied to the A_BAND 1st mixer (IC900, pin 1) via the band switches (D508, D509).

- 260-350 MHz or 470-600 MHz -



• While receiving 350-470 MHz

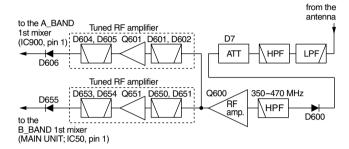
The 350–470 MHz band signals are passed through the LPF (L1–L3, C1–C6), HPF (L4, C7–C9) and attenuator (D7), then applied to the RF amplifier (Q600) via the band switch (D600) and HPF (L600, L601, L608, L611, C600–C602, C630, C631, C633).

The amplified signals are applied to the tuned RF amplifiers for A_BAND (Q601, D601, D602, D604, D605) and B_BAND (Q651, D650, D651, D653, D654).

The amplified signals by Q601 are then applied to the A_BAND 1st mixer (IC900, pin 1) via the band switch (D606).

The amplified signals by Q651 are then applied to the B_BAND 1st mixer (MAIN UNIT; IC50, pin 1) via the band switch (D655) and J1001 (pin 15).

- 350-470 MHz -

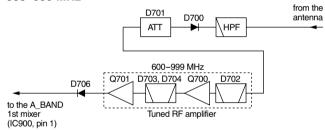


• While receiving 600-999 MHz

The 600–999 MHz band signals are passed through the HPF (L8, L9, C16–C18) and band switch (D700), then applied to the tuned RF amplifier (Q700, Q701, D702–D704) via the attenuator (D701).

The amplified signals are applied to the A_BAND 1st mixer (IC900, pin 1) via the band switch (D706).

- 600-999 MHz -



5-1-2 1ST IF CIRCUITS (RF AND MAIN UNITS)

The 1st IF circuits contain the 1st mixer, 1st IF amplifier and the 1st IF filter. The 1st IF mixer converts the received signals into a fixed frequency of the 1st Intermediate Frequency (IF) signal. The converted 1st IF signal is filtered at the 1st IF filters and amplified at the IF amplifier.

• A BAND (0.495-999 MHz)

The received signals from the RF circuits are applied to the A_BAND 1st IF mixer (RF UNIT; IC900, pin 1), and converted into the 61.65 MHz (FM/AM)/59.25 MHz (WFM) 1st IF signal by being mixed with 1st Local Oscillator (LO) signals from the VCOs (VCO UNIT).

While receiving 0.495–76 MHz band signals, the 1st LO signals are generated at BC BAND VCO (VCO UNIT; Q1, D1, D3, D5, D6), and for receiving 76–260 MHz band signals, the 1st LO signals are generated at VHF BAND VCO (VCO UNIT; Q51, D51, D54).

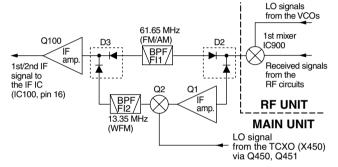
While receiving 260–999 MHz band signals, the 1st LO signals are generated at UHF BAND VCO (VCO UNIT; Q101, D101, D104). If the receiving frequency is 600 MHz or higher, the VCO output signal is doubled at the doubler circuit (RF UNIT; Q850) before being applied to the 1st mixer (RF UNIT; IC900, pin 3).

In FM/AM mode, the converted IF signal is applied to the 1st IF filter (MAIN UNIT; FI1) via the mode switch (D2) to filter out the unwanted signals, then applied to the IF amplifier (MAIN UNIT; Q100).

In WFM mode, the converted IF signal is applied to the 1st IF amplifier (MAIN UNIT; Q1) via the mode switch (D2). The amplified 1st IF signal is applied to the 2nd IF mixer (MAIN UNIT; Q2), and converted into the 13.35 MHz IF signal by being mixed with the 45.95 MHz Lo signal. The converted IF signal is passed through the IF filter (MAIN UNIT; F12) to filter out the unwanted signal, then applied to the IF amplifier (MAIN UNIT; Q100).

The amplified 1st or 2nd IF signal from the IF amplifier (MAIN UNIT; Q100) is then applied to the A_BAND IF IC (MAIN UNIT; IC100, pin 16).

• A_BAND 1st IF CIRCUIT



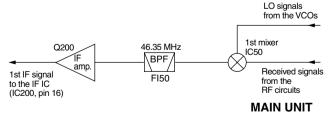
• B_BAND (118-174 MHz, 350-470 MHz.)

The received signals from the RF circuits are applied to the B_BAND 1st IF mixer (MAIN UNIT; IC50, pin 1), and converted into the 46.35 MHz 1st IF signal by being mixed with 1st Local Oscillator (LO) signals from the VCOs.

While receiving 118–174 MHz band signals, the 1st LO signals are generated at B_BAND VBVCO (MAIN UNIT; Q301, D300, D301), and for receiving 350–470 MHz band signals, the 1st LO signals are generated at B_BAND UBVCO (MAIN UNIT; Q351, D350, D352).

The converted 1st IF signal is passed through the 1st IF filter (MAIN UNIT; FI50) to filter out the unwanted signal, then applied to the 1st IF amplifier (MAIN UNIT; Q200). The amplified 1st IF signal is then applied to the B_BAND IF IC (MAIN UNIT; IC200, pin 16).

B_BAND 1st IF CIRCUIT



5-1-3 2ND IF AND DEMODULATOR CIRCUITS (MAIN UNIT)

The 1st IF signal is converted into the 2nd IF signal and demodulated in the IF IC. The IF IC contains 2nd mixer, limiter amplifier, quadrature detector, etc. in its package.

5-1-3-1 2ND IF CIRCUITS

- A BAND (0.495-999 MHz) -

FM/AM mode

The 1st IF signal from the IF amplifier (Q100) is applied to the 2nd mixer in the A_BAND IF IC (IC100, pin 16), and converted into the 450 kHz 2nd IF signal by being mixed with the 61.2 MHz 2nd LO signal from the reference frequency oscillator (X450) quadrupled by the quadruplicater (Q452).

The converted 2nd IF signal is output from pin 3, and passed through the 2nd IF filter (FI100) via the mode switch (D102) to suppress sideband noise.

In FM mode, the filtered 2nd IF signal is applied to the limiter amplifier (IC100, pin 5) via the mode switch (D103).

In AM mode, the filtered 2nd IF signal is applied to the IF amplifier (Q103) via the mode switch (D103).

• WFM mode

The 2nd IF signal from the IF amplifier (Q100) is applied to the 3rd mixer in the A_BAND IF IC (IC100, pin 16), and converted into the 1.95 MHz 3rd IF signal by being mixed with the 15.3 MHz 2nd LO signal from the reference frequency oscillator (X450).

The converted IF signal is output from pin 3, and applied to the limiter amplifier (IC100, pin 5) via the mode switches (D102, D103).

5-1-3-2 DEMODULATOR CIRCUITS

• FM/WFM mode

The amplified IF signal from the limiter amplifier in the IF IC is FM-demodulated at the quadrature detector (IC100, pins, 10, 11, X100) and output from pin 9. The demodulated AF signals are applied to the AF amplifier circuits.

AM mode

The amplified IF signal from the IF amplifier (Q103) is applied to the AM demodulator (Q104, Q105).

The demodulated AF signals are applied to the AF amplifier circuits.

- B_BAND (118-174 MHz, 350-470 MHz) -

The 1st IF signal from the 1st IF amplifier (Q200) is applied to the 2nd mixer in the B_BAND IF IC (IC200, pin 16), and converted into the 2nd IF signal by being mixed with the 2nd LO signal from the reference frequency oscillator (X450) tripled by the tripler (Q451).

The converted 2nd IF signal is output from pin 3, and passed through the 2nd IF filter (FM/AM mode: FI200; FM-N mode: FI201) via the mode switch (D202) to suppress sideband noise.

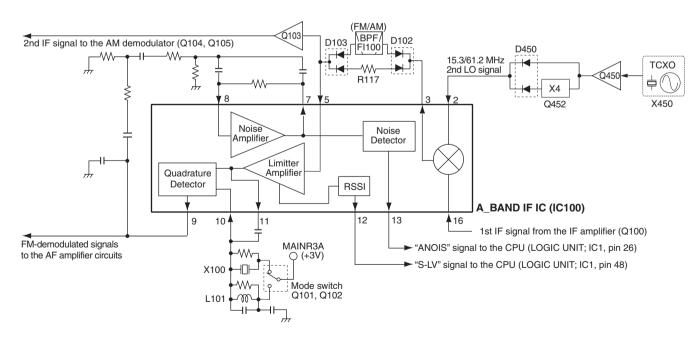
• FM/FM-N mode

The filtered 2nd IF signal is applied to the limiter amplifier in the B_BAND IF IC (IC200, pin 5) via the mode switch (D203). The amplified 2nd IF signal is FM-demodulated at the quadrature detector (IC200, pins, 10, 11, X200) and output from pin 9. The demodulated AF signals are applied to the AF amplifier circuits.

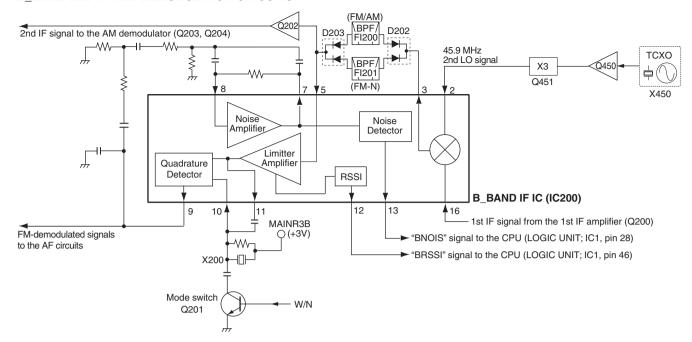
AM mode

The 2nd IF signal is passed through the Fl200 and applied to the AM demodulator circuit (Q203, Q204) via the IF amplifier (Q202). The demodulated AF signals are applied to the AF amplifier circuits.

A_BAND 2ND IF AND DEMODULATOR CIRCUITS



• B_BAND 2ND IF AND DEMODULATOR CIRCUITS



5-1-4 AF AMPLIFIER CIRCUITS (MAIN AND LOGIC UNITS)

The demodulated AF signals from the demodulator circuits are amplified and filtered in AF amplifier circuits.

- A BAND -

• FM/WFM mode

The demodulated AF signals from the A_BAND IF IC (MAIN UNIT; IC100, pin 9) are applied to the mode switch (MAIN UNIT; IC500, pins 1, 2) and then passed through the AF filter (MAIN UNIT; Q550, Q552).

AM mode

The demodulated AF signals from the AM-demodulator circuit (MAIN UNIT; Q104, Q105) are applied to the AF switch (MAIN UNIT; D105) and then passed through the AF filter (MAIN UNIT; Q550, Q552).

- B BAND -

• FM/FM-N mode

The demodulated AF signals from the B_BAND IF IC (MAIN UNIT; IC200, pin 9) are applied to the mode switches (MAIN UNIT; IC500, pins 10, 11, IC700, pins 11, 10) and then passed through the AF filter circuit (MAIN UNIT; IC501 pins 1, 2; 6, 7).

AM mode

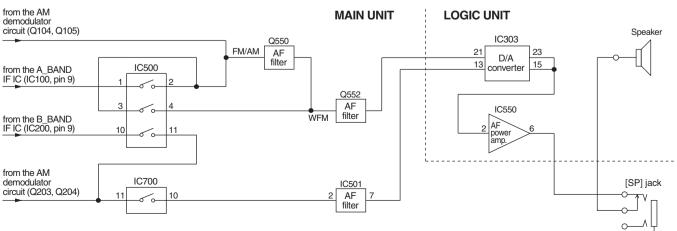
The demodulated AF signals from the AM-demodulator circuit (MAIN UNIT; Q203, Q204) are applied to the AF (MAIN UNIT; D205) and mode switches (MAIN UNIT; IC700, pins 10, 11) and then passed through the AF filter (MAIN UNIT; IC501 pins 1, 2; 6, 7).

The filtered AF signals are applied to the D/A converter (LOGIC UNIT; IC303 for A_BAND; pins 21, 22; 23, 24/for B_BAND; pins 13–16) and level adjusted. The level adjusted AF signals are applied to the AF power amplifier (LOGIC UNIT; IC550, pin 2). The power amplified AF signals are then output from pin 6, and applied to the internal speaker (CHASSIS; SP1) via [SP] connector (MAIN UNIT; J700).

5-1-5 AGC CIRCUIT (MAIN AND RF UNITS)

A portion of the AM-demodulated signals are converted into DC voltage by AGC (Automatic Gain Control) detector (MAIN UNIT; Q104; A_BAND/Q203; B_BAND), and fed back to the IF and RF circuits as the AGC signal.

• AF CIRCUITS



The AGC signal controls the bias of the IF amplifiers (MAIN UNIT; Q100, Q103/Q200, Q202) and RF amplifiers (RF UNIT; Q200, Q250, Q300, Q301, Q401, Q500, Q501, Q601/Q700, Q701, Q450, Q651) according to the received signal strength to prevent audio distortion and stabilize the demodulated AF signal level.

5-1-6 SQUELCH CIRCUITS (MAIN AND LOGIC UNITS)

NOISE SQUELCH

The noise squelch mutes the AF output signals when no RF signals are received. By detecting noise components in the demodulated AF signals, the squelch circuit toggles the AF power amplifier ON and OFF.

A portion of the FM-demodulated AF signals from the IF IC (MAIN UNIT; IC100/IC200 (A_BAND/B_BAND), pin 9) is passed through the noise filter (MAIN UNIT; IC100/IC200, pins 7, 8, R109–R113, C118–C122/R212–R216, C218–C222). The filtered noise signals are then applied to the noise amplifier in the IF IC to be amplified the noise components only.

The amplified noise components are converted into the pulse-type signal at the noise detector section, and output from pin 13 as the noise signal (A_BAND: "ANOIS"/B_BAND: "BNOIS"). The noise signal is applied to the CPU (LOGIC UNIT; IC1, pin 26/28), then the CPU outputs "AFON" signal from pin 97 according to the noise detection signal level to toggle the AF power amplifier regulator (LOGIC UNIT; Q105, Q106) ON and OFF.

• TONE SQUELCH

The tone squelch detects the tone signal in the demodulated AF signals, and opens the squelch only when matched subaudible tone frequency is detected in the received signal.

While the tone squelch is in use, and the received signal contains no sub-audible tone signal or mismatched tone frequency, the tone squelch mutes the AF signals even if the noise squelch is open.

A portion of the demodulated AF signals from the IF IC (MAIN UNIT; IC100/IC200, pin 9) are passed through the two-staged CTCSS/DTCS filter (MAIN UNIT; IC150/IC250, pins 3, 1 and pins 5, 7) via the mode switch (MAIN UNIT; IC500, pins 1, 2/10, 11) to suppress unwanted voice signals. The filtered CTCSS/DTCS signals (A_BAND: "ATONE"/B_BAND: "BTONE") are applied to the CPU (LOGIC UNIT; IC1, pin 49/45) via the tone selector (MAIN UNIT; IC703, pins 3, 4/10, 11).

The CPU decodes the CTCSS/DTCS signal, and outputs "AFON" signal from pin 97 according to the set CTCSS/DTCS signal to toggle the AF power regulator (LOGIC UNIT; Q105, Q106) ON and OFF.

5-2 TRANSMITTER CIRCUITS 5-2-1 MICROPHONE AMPLIFIER CIRCUIT (LOGIC UNIT)

The microphone amplifier circuit contains AF amplifier, IDC, splatter filter, etc. The AF signals from the microphone (thereafter, it is called "MIC signals") are filtered and level-adjusted at this circuit.

MIC signals from the microphone (MC300) are applied to the MIC amplifier (Q302), then the amplified MIC signals are applied to the mode switch (IC301, pin 1). In FM mode, the MIC signals are output from pin 6 and applied to the IDC (Instantaneous Deviation Control; IC302, pin 5).

In DV mode[†], the MIC signals are output from pin 7 and applied to the IDC (IC302, pin 5) via the ALC amplifier (IC300, pins 3, 5).

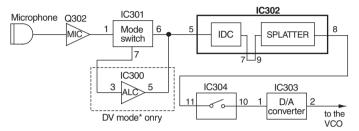
The IDC limits the level of the amplitude of MIC signals to prevent over deviation. The limited MIC signals are output from pin 7 and passed through the splatter filter (IC302, pins 8, 9).

The splatter filter suppresses 3 kHz and higher audio components.

The filtered MIC signals are applied to the D/A converter (IC303, pin 1) via the mode switch (IC304, pins 10, 11). The D/A converter (IC303) adjusts the deviation according to "DATA" signal from the CPU (IC1, pin 30).

The level adjusted MIC signals are output from pin 2 and then applied to the modulation circuit (VCO UNIT; D55 or D100) to modulate the VCO oscillating signal.

MICROPHONE AMPLIFIER CIRCUIT



5-2-2 MODULATION CIRCUIT (VCO UNIT)

The modulation circuit modulates the VCO oscillating signal with the AF signals from the microphone and the tone signals from the CPU.

MICROPHONE SIGNALS

The level adjusted MIC signals from the D/A converter (LOGIC UNIT; IC303, pin 2) are applied to the D55 (in transmitting on 144 MHz band) or D100 (in transmitting on 430 MHz band) to modulate the VCO oscillating signal by changing the reactance of D55 or D100. The modulated VCO output signal is buffer-amplified by Q200 and Q201, then applied to the transmit amplifiers via TX/RX switch (RF UNIT; D100) and amplifier (RF UNIT; IC100, pins 1, 4), as a transmit signal.

• TONE SIGNALS

The CTCSS and DTCS signals are generated by the CPU (LOGIC UNIT; IC1) and output from pin 43.

The CTCSS/DTCS signals are passed through the tone filter (Q307, R338–R340, C339, C340). The filtered tone signals are mixed with the MIC signal coving from the IDC amplifier (LOGIC UNIT; IC302 pin 7), then applied to the modulation circuit via the the splatter filter, mode switch and D/A converter.

The CTCSS/DTCS signals are passed through the tone filter (Q307, R338–R340, C339, C340). The filtered tone signals are mixed with the MIC signals come from the IDC amplifier (LOGIC UNIT; IC302, pin 7), then applied to the modulation circuit (D55 or D100) via the splatter filter (LOGIC UNIT; IC302, pins 9, 8), mode switch (LOGIC UNIT; IC304, pins 11, 10) and D/A converter (LOGIC UNIT; IC303, pins 4, 3).

5-2-3 TRANSMIT AMPLIFIERS (RF UNIT)

The VCO output signal is amplified to transmit output power level by the transmit amplifiers.

The VCO output signal from the amplifier (IC100) is applied to the pre-driver (Q102), driver (Q101) and power (Q100) amplifiers in sequence to be amplified to the transmit output power level. The power amplified transmit signal is passed through the antenna switching circuit and transmit filters.

[†]Available for IC-91AD or when the optional UT-121 is installed into IC-91A.

5-2-4 APC CIRCUIT (RF UNIT)

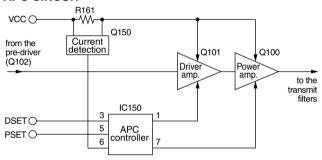
The APC (Automatic Power Control) circuit stabilizes transmit output power and controls it High or Low. The APC of this transceiver is a current monitoring type that detects the transmit signal current of the transmit amplifiers and controls the transmit output power.

While transmitting, the voltagedrop in R161 is detected by the current detection circuit (Q150) and applied to the APC controller (IC150, pin 6). Also, "PSET" signal (power setting reference voltage) from the D/A converter (IC950, pin 19) is applied to another input (pin 5).

Then the voltage difference between pins 5 and 6 is output from pin 7, and the transmit output power is controlled by varying of the gate voltage of the power amplifier (Q100).

When the transmit output power is set to Low, the driver gate voltage "DSET" is controlled at the same time as the power setting reference voltage "PSET" and the dynamic range of the power control is ensured. Thus, the APC circuit maintains a constant transmit output power.

APC CIRCUIT

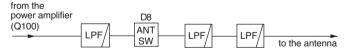


5-2-5 TRANSMIT FILTERS (RF UNIT)

The power amplified transmit signal from the power amplifier is filtered at the transmit filters. The transmit filters prevent unwanted RF signals being emitted to the air.

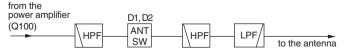
While transmitting in 144 MHz band, the power amplified transmit signal is passed through the LPF (L102, L103, C106, C107), antenna switch (D8) and two LPFs (L5–L7, C10–C14; L1–L3, C1–C6) before being applied to the antenna connector (CHASSIS; J1).

• 144 MHz



While transmitting in 430 MHz band, the power amplified transmit signal is passed through the HPF (L100, L101, C100–C103), antenna switch (D1, D2), HPF (L4, C7–C9) and LPF (L1–L3, C1–C6) before being applied to the antenna connector (CHASSIS; J1).

• 430 MHz



5-3 PLL CIRCUITS

5-3-1 VCO CIRCUITS (VCO UNIT AND MAIN UNIT)

This transceiver has 5 VCOs; BC BAND VCO, VHF BAND VCO, UHF BAND VCO, B_BAND VBVCO and B_BAND UBVCO. The BC BAND VCO, B_BAND VBVCO and B_BAND UBVCO oscillate the 1st LO signals. The VHF BAND VCO and UHF BAND VCO oscillate both transmit output signal and 1st LO signals.

- A BAND -

• BC BAND VCO

The BC BAND VCO (VCO UNIT; Q1, D1, D3, D5, D6) generates the 1st LO signals for receiving 0.495–76 MHz signals. The output signals are amplified at the buffer amplifiers (VCO UNIT; Q200, Q201), then applied to the 1st mixer (RF UNIT; IC900, pin 3) via TX/RX switch (RF UNIT; D850).

VHF BAND VCO

The VHF BAND VCO (VCO UNIT; Q51, D51, D54, D55) generates both of transmit output signal for 144 MHz band and 1st LO signals for receiving 76–260 MHz.

While receiving, the VCO oscillates the 1st LO frequency, and the output signals are amplified at the buffer amplifiers (VCO UNIT; Q200, Q201). The buffer-amplified signals are applied to the 1st mixer (RF UNIT; IC900, pin 3) via TX/RX switch (RF UNIT; D850).

While transmitting, the VCO oscillates the transmit frequency, and the output signal is amplified at the buffer amplifiers (VCO UNIT; Q200, Q201). The buffer-amplified signals are applied to the transmit amplifiers via TX/RX switch (RF UNIT; D100).

• UHF BAND VCO

The UHF BAND VCO (Q101, D100, D101, D104) generates both of the transmit output signal for 430 MHz band and 1st LO signals for receiving 260–999 MHz.

While receiving, the VCO oscillates the 1st LO frequency, and the output signals are amplified by the buffer amplifiers (VCO UNIT; Q200, Q201). If the receiving frequency is 600 MHz and below, the buffer-amplified signals are applied to the 1st mixer (RF UNIT; IC900, pin 3) via TX/RX switch (RF UNIT; D850). If the receiving frequency is 600 MHz and higher, the buffer-amplified signals are applied to the doubler circuit (RF UNIT; Q850), then the doubled signals are applied to the 1st mixer (RF UNIT; IC900, pin 3).

While transmitting, the VCO oscillates the transmit frequency, and the output signal is amplified at the buffer amplifiers (VCO UNIT; Q200, Q201), then applied to the transmit amplifiers via TX/RX switch (RF UNIT; D100).

A portion of the VCO output signals generated at BC/VHF/UHF BAND VCO are applied to the PLL IC (RF UNIT; IC800, pin 4) via buffer amplifiers (VCO UNIT; Q200, Q202) for comparison signal.

- B_BAND -

VBVCO

The VBVCO (MAIN UNIT; Q301, D300, D301) generates the 1st LO signals for receiving 118–174 MHz signals. The output signals are amplified at the buffer amplifier (MAIN UNIT; Q353), then applied to the 1st mixer (MAIN UNIT; IC50, pin 3).

UBVCO

The UBVCO (MAIN UNIT; Q351, D350, D352) generates the 1st LO signals for receiving 350–470 MHz signals. The output signals are amplified at the buffer amplifier (MAIN UNIT; Q353), then applied to the 1st mixer (MAIN UNIT; IC50, pin 3).

A portion of the VCO output signals generated at VBVCO/UBVCO are applied to the PLL IC (MAIN UNIT; IC400, pin 8) via buffer amplifier (MAIN UNIT; Q353) for comparison signal.

5-3-2 PLL CIRCUITS (RF AND MAIN UNITS)

The PLL circuit provides stable oscillation of the transmit frequency and receive 1st LO frequency. The PLL circuit compares the phase of the divided VCO frequency with the reference frequency. The PLL output frequency is controlled by the divided ratio (N-data) from the CPU.

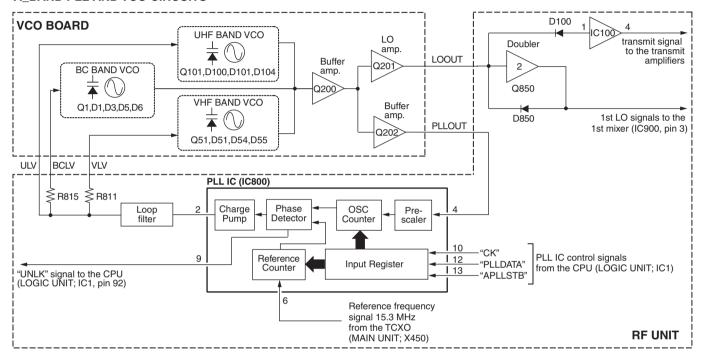
• A BAND PLL CIRCUIT

The buffer amplified signals from the buffer amplifier (VCO UNIT; Q202) are applied to the PLL IC (RF UNIT; IC800, pin 4). The applied signals are divided at the prescaler and OSC counter according to the "PLLDATA" signal from the CPU (LOGIC UNIT; IC1, pin 94). The divided signal is phasecompared with the reference frequency at the phase detector.

The phase difference is output from pin 2 as a pulse type signal after being passed through the internal charge pump. The output signal is applied to the BC/VHF/UHF BAND VCOs (VCO UNIT) after being converted into the DC voltage (lock voltage) at the loop filter (RF UNIT; C820–C823, R806–R808).

The lock voltage for BC BAND VCO ("BCLV") from the loop filter is applied to the VCO (VCO UNIT) via R815 and pin 1 of J800 (RF UNIT). The lock voltage for VHF BAND VCO ("VLV") from the loop filter is applied to the VCO (VCO UNIT) via R811 and pin 6 of J800 (RF UNIT). The lock voltage for UHF BAND VCO ("ULV") from the loop filter is applied to the VCO (VCO UNIT) via pin 16 of J800 (RF UNIT).

• A_BAND PLL AND VCO CIRCUITS



• B BAND PLL CIRCUIT

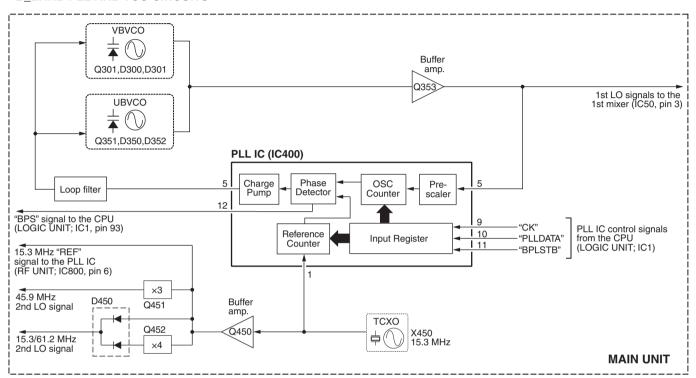
The buffer amplified signals from the buffer amplifier (MAIN UNIT; Q353) are applied to the PLL IC (MAIN UNIT; IC400, pin 8). The applied signals are divided at the prescaler and OSC counter according to the "PLLDATA" signal from the CPU (LOGIC UNIT; IC1, pin 94). The divided signal is phasecompared with the reference frequency at the phase detector.

The phase difference is output from pin 5 as a pulse type signal after being passed through the charge pump. The output signal is

applied to the B_BAND VBVCO/UBVCO (MAIN UNIT) after being converted into the DC voltage (lock voltage) at the loop filter (MAIN UNIT; R404–R406, C410–C412, C414). The lock voltage from the loop filter is applied to each VCO.

If the oscillated signal drifts, its phase changes from that of the reference frequency, causing a lock voltage change to compensate for the drift in the oscillated frequency.

• B BAND PLL AND VCO CIRCUITS



5-4 DIGITAL CIRCUITS 5-4-1 LINER CODEC

I LINER CODEC

(UT-121; CODEC UNIT for IC-91AD)

IC350 is a liner codec IC which converts transmitting AF signals from the LOGIC unit into digital signals, and outputs them to the audio codec IC (IC101) as 16-bit audio data.

IC350 also converts the 16-bit audio data from the audio codec IC (IC101) into analog signals, and outputs them to the LOGIC unit as the receiving AF signals.

5-4-2 AUDIO CODEC

(UT-121; CODEC UNIT for IC-91AD)

IC101 is an AMBE audio codec IC. While receiving, digital signals from the LOGIC unit are expansion decoded in IC101, and output to the liner codec IC (IC350).

While transmitting, 16-bit audio data from the liner codec IC (IC350) are compression coded in IC101, and output to the LOGIC unit.

5-4-3 MODEM (UT-121; CODEC UNIT for IC-91AD)

IC202 is a GMSK modem IC. While receiving, demodulated AF signals from the MAIN unit are output to the LOGIC unit as digital signals synchronized with clock signal.

While transmitting, digital signals from the LOGIC unit are converted into GMSK base-band signal, and output to the LOGIC unit.

5-5 POWER SUPPLY CIRCUITS (LOGIC UNIT) 5-6 CPU PORT ALLOCATION

Line	Description
HV	The same voltage as the connected external power supply thrugh the external DC IN jack (RF UNIT; J1000).
VCC	The same voltage as the attached battery pack passed through the DC switch (RF UNIT; Q1000, D1000, D1001). The voltage is applied to the drive amplifier (RF UNIT; Q101), power amplifier (RF UNIT; Q100) and LED driver (LOGIC UNIT; Q202, Q203).
+3CPU	Common 3 V converted from VCC line at the CPU3 regulator (LOGIC UNIT; IC100). The converted voltage is applied to the CPU (IC1), EEPROM (IC51), etc.
+3V	Common 3 V converted from +3CPU line at the +3V regulator (Q100, Q101, D100). The converted voltage is applied to the PLL IC (RF UNIT; IC800), D/A converters (MAIN UNIT; IC701, IC702), etc.
RFR3	Rceive 3 V controlled by RFR3 regulator (Q602, Q603) using "R3C" signal from the expand IC (MAIN UNIT; IC701, pin 14), controlled by strobe signal "IOSTB3" from the CPU (LOGIC UNIT; IC1, pin 87).
	The voltage is applied to the RF circuits (RF UNIT).
T5	Transmit 5 V controlled by T5 regulator (Q650–Q652) using "TXC" signal from the CPU (IC1, pin 99). The controlled voltage is applied to the APC amplifier (IC150), pre-driver (Q102), etc.
VCO3V	Common 3 V converted from VCC line at the VCO3V regulator (Q800, Q801, D800, D801). The voltage is applied to the VCO regulators.
BCVCO3	Rceive 3 V controlled by BCVCO3 regulator (RF UNIT; Q801) using "BCVCOC" signal from the expander (RF UNIT; IC951, pin 5), controlled by "IOSTB1" signal from the CPU (IC1, pin 29). The controlled voltage is applied to the BC BAND VCO (VCO UNIT; Q1, D1, D3, D5).
VVCO3	Common 3 V controlled by VVCO3 regulator (Q800) using "VAVCOC" signal from the expander (IC951, pin 6), controlled by the "IOSTB1" from the CPU (LOGIC UNIT; IC1, pin 29). The controlled voltage is applied to the VHF BAND VCO (VCO UNIT; Q51, D51, D54, D55).
UVCO3	Common 3 V controlled by VVCO3 regulator (Q800) using "UAVCOC" signal from the expander (IC951, pin 7), controlled by the "IOSTB1" from the CPU (LOGIC UNIT; IC1, pin 29). The controlled voltage is applied to the UHF BAND VCO (VCO UNIT; Q101, D100, D101, D104).
+5.5V	Common 5.5 V boosted at the DC-DC up-converter (IC101, D101). The boosted voltage is applied to the PLL IC (RF UNIT; IC800), PLL IC (MAIN UNIT; IC400), reference oscilator (X450), etc.

3-0 C	PU PUN	I ALLOCATION
Pin No.	Port Name	Description
1	BLED	Outputs TX/RX indicator (DS201) control signal to the TX/RX LED driver (Q201). "High"=While the squelch is open.
2	LIGHT	Outputs backlight control signal to the backlight LEDs driver (Q203). "High"=While backlight is ON.
3–7	KR0-KR4	Input ports for keypad.
8	POWER	Input port for [PWR] key (S1). "Low"=When the key is pushed.
9	BATT	Outputs power supply line select signal to the DC switch (IC50, Q35).
10	ESIO	I/O port for data signal from the EEPROM (IC51).
11	ECK	Outputs clock signal to the EEPROM (IC51).
13– 17	KS0-KS3	Input ports for keypad.
22	PTT	Input port for [PTT] key (MAIN UNIT; S701). "High"=While the key is pushed.
23	SQL	Input port for [SQL] key (MAIN UNIT; S700). "Low"=While the key is pushed.
24, 5	DICK, DIUD	1 1 1 1 7 7
26	ANOIS	Input port for noise signal from the A_BAND IF IC (MAIN UNIT; IC100).
27	DTCS	Outputs tone filter passband control signal to the tone filter (R337–R340, C338–C341) switch (Q307). "High"=During mode operation.
28	BNOIS	Input port for noise signal from the B_BAND IF IC (MAIN UNIT; IC200).
29	IOSTB1	Outputs strobe signal to the D/A converter (RF UNIT; IC951).
30	DATA	Outputs common data signal to the D/A converters (LOGIC UNIT; IC303, MAIN UNIT; IC702, RF UNIT; IC951).
31	AMBETXD†	Outputs AME TX data to the attached UT-121 (CODEC UNIT for IC-91AD).
32	AMBERXD†	Input ports for AME RX data from the attached UT-121 (CODEC UNIT for IC-91AD).
33	СК	Outputs common clock signal to the D/A converters (LOGIC UNIT; IC303, MAIN UNIT; IC702, RF UNIT; IC951).
34	DASTB1	Outputs strobe signal to the D/A converter (RF UNIT; IC950).
35	DASTB2	Outputs strobe signal to the D/A converter (IC303).
36	CHGC	Outputs charge control signal to the charger circuit (Q150, Q153, D150, D152). "High"=While charging.
37	CHGH	Outputs charging current control signal to the charger circuit (Q150, Q153, D150, D152). "High"=When the charging is completed.
38	CPUHV	Inputs HV line detection signal from the HV line voltage detector (Q51, D52). "Low"=While no exrternal DC power supply is connected.
39	PCON	Outputs power control signal to the +3V regulator (Q100, Q101, D100). "Low"=While the transceiver's power is OFF.
41	MUTE	Outputs TX mute signal to the mode switch (IC301). "High"=While the transmitting is muted.
43	CTCOUT	Outputs CTCSS/DTCS signals.
Λναila	ble for the I	C-91AD or when UT-121 is installed into

[†]Available for the IC-91AD or when UT-121 is installed into the IC-91A.

5-6 CPU PORT ALLOCATION (continued)

Pin No.	Port Name	Description
44	DTMF	Outputs DTMF/beep/1750 Hz tone signals.
45	BTONE	Input port for tone signals (B_BAND; CTCSS, DTCS, etc.) from the tone selector (MAIN UNIT; IC703).
46	ATONE	Input port for tone signals (A_BAND; CTCSS, DTCS, etc.) from the tone selector (MAIN UNIT; IC703).
47	S-LV	Input port for RSSI signal from the D/A converter (MAIN UNIT; IC700).
48	VOL	Input port for audio level setting signal from the volume controller (MAIN UNIT; S702).
49	BRSSI	Input port for RSSI signal (B_BAND) from the IF IC (MAIN UNIT; IC200).
50	TEMP	Input port for transceiver's temperature detection signal from the detecting temperature selector (IC50).
51	VIN	Input port for the volatge level from the connected power supply.
59	RESET	Input port for reset signal from the reset IC (IC100).
69	CLSFT	Outputs CPU clock frequency shift signal to the clock frequency oscillator (X1, D103).
70	ACQ [†]	Outputs ACQ signal to the modem IC (UT-121; IC202).
71	DCEL [†]	Outputs DSEL signal to the modem IC (UT-121; IC202).
72	RXCK [†]	Input port for RX clock signal from the modem IC (UT-121; IC202).
73	RXDT [†]	Input port for RX data to the modem IC (UT-121; IC202).
74	TXDT [†]	Outputs TX data to the modem IC (UT-121; IC202).
75	TXCK [†]	Input port for TX clock signal from the modem (UT-121; IC202).
83	TX232	Outputs data signal to the RS-232C driver (IC52).
84	RX232	Input port for data signal from the RS-232C driver (IC52).
85	AMBECLK†	Outputs AME clock signal to the DSP IC (UT-121; IC101).
86	AMBERES†	Outputs AME reset signal to the DSP IC (UT-121; IC101).
87	IOSTB3	Outputs strobe signal to the D/A converter (MAIN UNIT; IC701).
88	AMBESTB†	Outputs AME strobe signal to the DSP IC (UT-121; IC101).
89	AMBEEPR†	Input port for AMEEPR signal from the DSP IC (UT-121; IC101).
90	DVC	Outputs +3D line control signal to the 3.3 V regulator (UT-121; Q50, Q51). "Low"=During DV [†] mode operation.
91	D_AS	Outputs mode select signal to the mode switch (IC301). "Low"=During DV [†] mode operation.
92	BPS	Outputs power control signal to the B_BAND PLL IC (MAIN UNIT; IC400). "Low"=During in power save mode.
93	UNLK	Input port for unlock signal from the PLL IC (RF UNIT; IC800). "Low"=While the PLL is unlocked.
94	PLLDATA	Outputs data signal to the PLL IC's (MAIN UNIT; IC400, RF UNIT; IC800).
95	BPLSTB	Outputs strobe signal to the PLL IC (MAIN UNIT; IC400).

[†]Available for the IC-91AD or when UT-121 is installed into the IC-91A.

- 1 '	Pin No.	Port Name	Description
	96	IOSTB2	Outputs strobe signal to the D/A converter (MAIN UNIT; IC702).
	97	AFON	Outputs AF power amplifier control signal to the AF6V regulator (Q105, Q106). "High"=While the squelch is open.
	98	APLLSTB	Outputs strobe signal to the A_BAND PLL IC (RF UNIT; IC800).
	99	TXC	Outputs transmitter circuit control signal to the LED driver (Q200) and the T5 regulator (MAINUNIT; Q650-Q652) "High"=While transmitting.
	100	MICC	Outputs microphone amplifier (Q302) and ALC circuit (IC301) control signal to the microphone amplifier driver (Q300). "Low"=While transmitting.

SECTION 6 ADJUSTMENT PROCEDURES

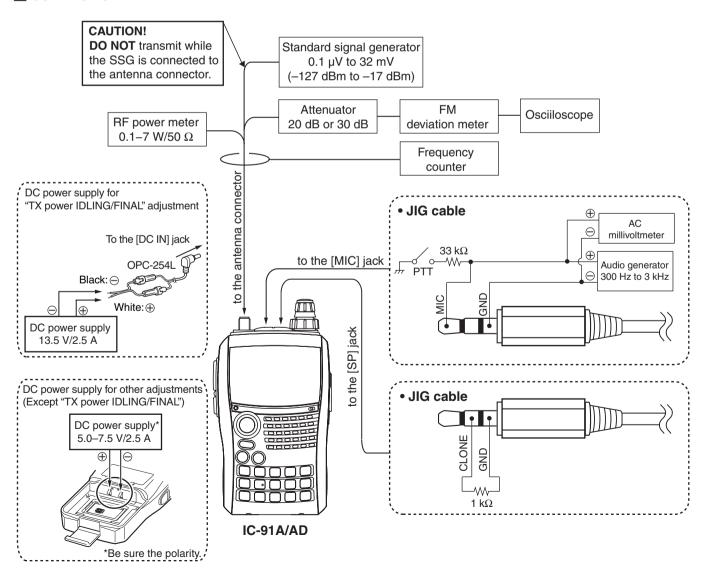
6-1 PREPARATION

When adjusting IC-91A/AD, these test equipments, OPC-254L and the JIG cables (see the illust below) are required.

■ REQUIRED TEST EQUIPMENTS

EQUIPMENT	GRADE A	ND RANGE	EQUIPMENT	GRADE A	AND RANGE
DC power supply	Output voltage Current capacity	: 5.0–13.5 V DC : More than 2.5 A		Frequency range	: 0.1–1800 MHz
RF power meter (terminated type)	Frequency range Impedance	: 0.1–7 W : 100–500 MHz : 50 Ω : Less than 1.2 : 1	Standard signal generator (SSG)	Output level	: 0.1 µV to 32 mV (–127 to –17 dBm)
Frequency counter	Frequency accuracy	: 0.1–500 MHz : ±1 ppm or better : 100 mV or better	Oscilloscope	Frequency range Measuring range	: DC-20 MHz : 0.01-20 V
FM deviation meter	- 1 7 3 -	: 30–500 MHz : 0 to ±10 kHz	AC millivoltmeter	Measuring range	: 10 mV to 10 V
A	1 - 1 7 3 -		External speaker	Input impedance Capacity	: 8 Ω : More than 50 mW
Audio generator	Output level : 1–500 mV (–47 to 7 dBm)		Attenuator	Power attenuation Capacity	: 20 or 30 dB : More than 7 W

■ CONNECTION



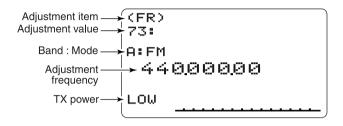
CAUTION!: BACK UP the originally programmed memory data in the transceiver before starting the adjustment.

There is possiblity of losing original memory data when the adjustment is finished.

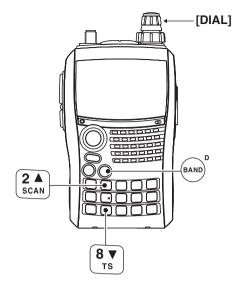
■ ENTERING ADJUSTMENT MODE

- 1 Turn the power OFF.
- ② Connect the JIG cables (see page 6-1) to the [SP] and [MIC] jacks.
- 3 While pushing [SQL] and [8] keys, turn the power ON.

During adjustment mode, the function dispaly shows the adjustment item, frequency, etc. as below.



■ KEY ASSIGNMENTS FOR ADJUSTMENT MODE



Scan : Selects the next adjustment item.

• 8 ▼ : Selects the previous adjustment item.

Adjusts the value for the item manually.

BAND : Stores the set value.

Adjusts the value for the item automatically.

NOTE: The set value storing cannot be performed during transmit. Release PTT switch to return to receive first, then push this key to store the set value.

QUITING ADJUSTMENT MODE

 While pushing [VFO], [MR] and [BAND] keys, turn the power OFF.

6-2 TRANSMITTER ADJUSTMENT

• Set the specified value using [DIAL], and push [BAND] to store the set value. Then push [2] to move to the next adjustment item.

NOTE: "REFERENCE FREQUENCY" should be adjusted before "FM DEVIATION" and "RXBPF." Otherwise, these adjustments will not be adjusted properly.

ADJUSTMENT ITEM		ЕМ	ADJUSTMENT CONDITION	VALUE
REFERENCE FREQUENCY [Fr]	(FR)	1	Connect an RF power meter to the antenna connector. Loosely couple a frequency counter to the antenna connector. Transmitting	440.000 MHz
TX POWER IDLING 5.0 V (VHF) [id]	(id)	1	Power supply voltage: 5.0 V Adjustment value of (Po): 00 Connect an RF power meter to the antenna connector. Transmitting	10 mW
(UHF)		2	Transmitting	
FINAL 5.0V (VHF) [Po]	(Po)	1	Transmitting	0.1 W
(UHF)		2	Transmitting	
TX POWER IDLING 7.4V [Id] (VHF)	(Id)	1	 Power supply voltage : 7.4 V Adjustment value of ⟨□□⟩: 00 Transmitting 	[HIGH]: 5.0 W [LOW]: 40–100 mW
(UHF)		2	Transmitting	
		NOTE	E: Take notes of this adjustment value. (This value is used as reference for "TX POWER IDLING 13.5V" adjustment value.	ustment)
FINAL 7.4V [Po] (VHF)	(Po)	1	Transmitting	[HIGH]: 5 W [LOW]: 0.5 W
(UHF)		2	Transmitting	
TX POWER IDLING 13.5V [Id] (VHF)	(Id)	1	Power supply voltage: 13.5 V Adjustment value of ⟨□□⟩: 00 Transmitting	[HIGH]: • Adjustment value: 58 or • TX pwr.: 3.0–4.0 W ⁽¹⁾ [LOW]: 40–100 mW
(UHF)		2	Transmitting	[HIGH] • Adjustment value: 58 or • TX power: 3.0–4.0 W [LOW]: Adjustment value: (2)
FINAL 13.5V [Po] (VHF)	(Po)	1	Transmitting	[HIGH]: 4.6–5.2 W [LOW]: 0.4–0.6 W
(UHF)		2	Transmitting	_ · ·

^{(1);} Adjustment value for the case If the output power exceeds 4.0 W.

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^{(2);} Set to the value in which 3 is subtracted from the [Id] value set by "TX POWER IDLING 7.4 V (UHF)/[LOW]."

6-2 TRANSMITTER ADJUSTMENT (continued)

• Set the specified value using [DIAL], and push [BAND] to store the set value. Then push [2] to move to the next adjustment item.

ADJUSTMENT ITEM		ADJUSTMENT CONDITION	VALUE
FM DEVIATION [FMV] (FMU) (VHF)	1	Connect an audio generator to the [MIC] jack through the JIG cable (see the page 6-1) and set as; Frequency : 1.0 kHz Level : 90 mVrms Connect a modulation analyzer to the antenna connector through an attenuator and set as; LPF : 20 kHz HPF : OFF De-emphasis : OFF Detector : (P-P)/2 Transmitting	±4.4 kHz
(UHF)	2	Transmitting	
[FMR] (FMR) (VHF)	3	Set the audio generator to the [MIC] jack through the JIG cable (see the page 5-1) and as; Frequency : 300 Hz Level : 90 mVrms Transmitting	
(UHF)	4	Transmitting	
DIGITAL DEVIATION [‡] [DVV] (VHF)	1	Connect a modulation analyzer to the antenna connector through an attenuator and set as; LPF : 20 kHz HPF : OFF De-emphasis : OFF Detector : (P-P)/2 Transmitting	±1.2 kHz
(UHF)	2	Transmitting	
[DVR] (DUR) (VHF)	3	Transmitting	minimum deviation
(UHF)	4	Transmitting	
DTMF, CTCSS/DTCS DEVIATION [DTMF] (DTMF) (DTMF, VHF)	1	Connect a modulation analyzer to the antenna connector through an attenuator and set as; LPF : 20 kHz HPF : OFF De-emphasis : OFF Detector : (P-P)/2 No audio signals are applied to [MIC] jack. Transmitting	±3.5 kHz
(DTMF, UHF)	2	Transmitting	
[CT] (CT) (CTCSS, VHF)	3	Transmitting	
(CTCSS, UHF)	4	Transmitting	±0.75 kHz
[DT] (DT) (DTCS, VHF)	5	Transmitting	±0.70 KHZ
*Displayed on the function	6	Transmitting	

^{*}Displayed on the function display.

[†]The output level of the standard signal generator (SSG) is indicated as the SSG's open circuit.

[‡]Necessary for the IC-91AD or when UT-121 is installed into the IC-91A.

6-3 RECEIVER ADJUSTMENT

• Set the specified value using [DIAL], and push [BAND] to store the set value. Then push [2] to move to the next adjustment item.

ADJUSTMENT IT	EM	ADJUSTMENT CONDITION	VALUE
RXBPF (A_BAND) [TrA]	TrA)	 Connect an SSG to the ANT connector and set as; Dev. : 3.5 kHz AF :1 kHz 	
30-118 MHz bands	1	• Set the SSG as; Frequency: Specified frequencies* Level: 0 dBµ [†] (-107 dBm) • Receiving	
118–174 MHz bands	2	• Set the SSG as; Frequency: Specified frequencies* Level: -3 dBµ† (-110 dBm) • Receiving	
174–350 MHz bands	3	• Set the SSG as; Frequency: Specified frequencies* Level: 0 dBµ† (-107 dBm) • Receiving	Push [BAND]
350–470 MHz bands	4	• Set the SSG as; Frequency: Specified frequencies* Level: -3 dBµ [†] (-110dBm) • Receiving	(Automatic adjustment)
470–999.9 MHz bands	5	• Set the SSG as; Frequency: Specified frequencies* Level: 0 dBµ† (-107 dBm) • Receiving	
RXBPF (B_BAND) [TirB]	TrB)	Connect an SSG to the ANT connector and set as; Dev. : 3.5 kHz AF : 1 kHz	
118–470 MHz bands	1	• Set the SSG as; Frequency: Specified frequencies* Level: -3 dBµ† (-110 dBm) • Receiving	
FM S-METER (A_BAND [S3A]) S3A)	Connect an SSG to the ANT connector and set as; Dev. : 3.5 kHz AF : 1 kHz	
1.0-145 MHz bands	1	• Set the SSG as; Frequency: Specified frequencies* Level: -6 dBµ [†] (-113 dBm) • Receiving	
220-305.1 MHz bands	2	• Set the SSG as; Frequency : Specified frequencies* Level : -4 dBµ [†] (-111 dBm) • Receiving	
430 MHz band	3	• Set the SSG as; Frequency : Specified frequency* Level : -6 dBµ [†] (-113 dBm) • Receiving	Push [BAND] (Automatic adjustment)
530-800 MHz bands	4	• Set the SSG as; Frequency : Specified frequencies* Level : -2 dBµ [†] (-109 dBm) • Receiving	
FM S-METER (B_BAND) [S3B] (S3B) (VHF)	1	• Set the SSG as; Frequency : Specified frequency* Level : -6 dBµ [†] (-113 dBm) • Receiving	
(UHF)	2	• Set the SSG as; Frequency : Specified frequency* Level : -6 dBµ [†] (-113 dBm) • Receiving	

^{*}Displayed on the function display.

[†]The output level of the standard signal generator (SSG) is indicated as the SSG's open circuit.

6-4 RECEIVER ADJUSTMENT (continued)

6-4 RECEIVER ADJUSTMENT		(continuea)		I
ADJUSTMENT ITEM			ADJUSTMENT CONDITION	VALUE
WFM S-METER [S3A]	(S3A)	• Connect an SSG Dev. AF	G to the ANT connector and set as; : 3.5 kHz : 1 kHz	
1.0-145 MHz bands	1	• Set the SSG as; Frequency Level • Receiving	: Specified frequencies* : 0 dBµ [†] (–107 dBm)	
15.1-40.1 MHz bands	2	• Set the SSG as; Frequency Level • Receiving	: Specified frequencies* :-3 dBµ [†] (-110 dBm)	
60.1 MHz band	3	• Set the SSG as; Frequency Level • Receiving	: Specified frequency* : –4 dBµ [†] (–111 dBm)	
87.5 MHz band	4	• Set the SSG as; Frequency Level • Receiving	: Specified frequency* : 2 dBµ [†] (–105 dBm)	
107.9 MHz band	5	• Set the SSG as; Frequency Level • Receiving	: Specified frequency* :-1 dBµ [†] (-108 dBm)	
145.1 MHz band	6	• Set the SSG as; Frequency Level • Receiving	: Specified frequency* : 0 dBµ [†] (–107 dBm)	Push [BAND] (Automatic adjustment)
220 MHz band	7	• Set the SSG as; Frequency Level • Receiving	: Specified frequency* : –2 dBµ [†] (–109 dBm)	
305 MHz band	8	• Set the SSG as; Frequency Level • Receiving	: Specified frequency* : 5 dBµ [†] (–102 dBm)	
435 MHz band	9	• Set the SSG as Frequency Level • Receiving	; : Specified frequency* : –4 dBμ [†] (–111 dBm)	
530 MHz band	10	Set the SSG as Frequency Level Receiving	; : Specified frequency* : 10 dBμ [†] (–97 dBm)	
800 MHz band	11	• Set the SSG as Frequency Level • Receiving	; : Specified frequency* : 6 dBμ [†] (–101 dBm)	

^{*}Displayed on the function display.

†The output level of the standard signal generator (SSG) is indicated as the SSG's open circuit.

• ADJUSTMENT FREQUENCY LIST

NOTE: Adjustment frequency may difer depending on the transceiver.

ADJUSTM	ENT ITEI	M	FREQUEN	ICY (MHz)
REFERENCE				0.0
FREQUENCY [FR]			44	0.0
IDLING [id] 5.0 V		VHF	145.0	(146.0)*
		UHF	435.0	(445.0)*
FINAL [Po] 5.0 V		VHF	145.0	(146.0)*
		UHF	435.0	(445.0)*
IDLING [ld] 7.4 V	HIGH	VHF	145.0	(146.0)*
	man	UHF	435.0	(445.0)*
	LOW	VHF	145.0	(146.0)*
	LOVV	UHF	435.0	(445.0)*
FINAL [Po] 7.4 V	HIGH	VHF	145.0	(146.0)*
	піап	UHF	435.0	(445.0)*
	LOW	VHF	145.0	(146.0)*
	LOVV	UHF	435.0	(445.0)*
IDLING [ld] 13.5 V	HIGH	VHF	145.0	(146.0)*
	пісп	UHF	435.0	(445.0)*
	LOW	VHF	145.0	(146.0)*
	LOW	UHF	435.0	(445.0)*
FINAL [Po] 13.5 V	IIIOII	VHF	145.0	(146.0)*
	HIGH	UHF	435.0	(445.0)*
	1004	VHF	145.0	(146.0)*
	LOW	UHF	435.0	(445.0)*
FMDEVIATION [FM	V]	VHF	145.0	(146.0)*
		UHF	435.0	(445.0)*
[FMR]		VHF	145.0	(146.0)*
		UHF	435.0	(445.0)*
DIGITAL		VHF	145.0	(146.0)*
DEVIATION [DVV] [†]		UHF	435.0	(445.0)*
[DVR] [†]		VHF	145.0	(146.0)*
		UHF	435.0	(445.0)*
TONE DEVIATION		VHF	145.0	(146.0)*
[DTMF]		UHF	435.0	(445.0)*
[CT]		VHF	145.0	(146.0)*
		UHF	435.0	(445.0)*
[DTMF]		VHF	145.0	(146.0)*
		UHF	435.0	(445.0)*

^{*[}USA] version.
†Necessary for the IC-91AD or when UT-121 is installed into the IC-91A.

ADJUSTMENT ITEI	М	FREQUENCY (MHz)
RXBPF		30.1
(A_BAND) [TrA]		49.9
		50.1
		75.9
		76.1
		90.1
		117.9
		118.1
		146.1
		173.9
		174.1
		222.1
		159.9
		260.1
		305.1
		149.1
		350.1
		349.1
		350.1
		440.1
		469.9
		470.1
		535.1
		599.9
		600.1
	-	800.1
		999.9
RXBPF		118.1
(B_BAND) [TrB]		146.1
		173.9
		350.1
		440.1
		469.9
FM/WFM S-METER		1.01
(A_BAND) [S3A]		15.1
		40.1
		60.1
		87.5
	ļ	145.1
		220.1
		305.1
		435.1
		535.1
		800.1
FM S-METER	VHF	145.1
(B_BAND) [S3B]	UHF	435.1
		•

SECTION 7 PARTS LIST

• IC-91AD/A

[LOGIC UNIT]

[LOGI	C UNIT]				
REF NO.	ORDER NO.		DESCRIPTION	М.	H/V LOCATION
IC1 IC2 IC50 IC51 IC52 IC100 IC101 IC300 IC301 IC302 IC303 IC304 IC550 IC560	1140013020 1130013010 1130011770 1140012950 1120003020 1180002790 1110006930 1110006470 1190001350 1130011770 1130011770 1110002810 1110006090	S.IC S.IC S.IC S.IC S.IC S.IC S.IC S.IC	HD64F2238RTF13V SN74AHC1G08DCK3 CD4066BPWR 24LC512T-I/SM MAX3221IPWR R1150H022D-T1-F XC6371A551PR AN6123MS SN74AHC2G53HDCT3 LMV324IPWR M62364FP 600D CD4066BPWR NJM2070M-TE1 XC6202P502PR	888888888888888	29.9/78.2 23.3/85.1 16.7/88.5 40.7/68.7 44.7/81.9 45.2/3.4 42.8/46.3 42/52.6 26.9/47.5 15.5/40 26.9/41.5 16.1/56.4 49.3/6.2
Q50 Q51 Q51 Q52 Q53 Q100 Q101 Q105 Q106 Q151 Q152 Q153 Q200 Q201 Q201 Q202 Q203 Q300 Q301 Q301 Q302 Q303 Q305 Q306 Q307 Q309	1540000660 1540000660 1590003250 1590003250 1590001170 1590001170 1510000581 1520000651 1590003280 1590003290 1590003290 1590003290 1590003250 1590003390 1590003390 1590003390 1590003390 1590003390 1590003390 1590003390 1590003390	S.TR S.TR S.TR S.TR S.TR S.TR S.TR S.TR	2SD2216J-S 2SD2216J-S UNR9115J-(TX) UNR9115J-(TX) 2SB1132 T100 R XP1501-(TX) AB 2SB1132 T100 R XP1501-(TX) AB 2SB1362-GR (TE85R) 2SB12015-TL-E UNR9211J-(TX) XP1501-(TX) AB UNR9215J-(TX)	88888888884-8	39.6/79 17.8/81.4 18/84.5 16/84.5 46.3/36.3 44.4/41 15.2/70.4 15.2/66.5 18.8/2.7 25.1/4 15.3/2 11.7/4.7 13.9/55.7 13.8/53.7 34.7/41.3 44.6/27.7 39.6/55.3 44.9/56.6 43.2/49.1 38/45.4 36.9/50.4 38/47.4 35.7/57.3 21.9/42.4 39/50.3
D1 D2	1790001200 1790001250	S.DIO S.DIO	MA6S121 (TX) MA2S111-(TX)	Т	21.7/47.8
D3	1790001250	S.DIO	Except [TPE], [AUS] only MA2S111-(TX) Except [USA], [EXP-2] only	T	22.2/51.3 19.6/51.3
D11	1790001250	S.DIO	MA2S111-(TX) Except [TPE], [KOR] only	т	21.7/50.1
D12 D13	1790001250 1790000850	S.DIO S.DIO	MA2S111-(TX) [TPE], [KOR] only MA132WK (TX)	Т	23.5/49.6
D15 D50 D51 D52 D53 D100 D101 D102 D103 D150 D152 D201 D300	1790001250 1790001240 1790001250 1790001250 1790001250 1790001250 1750000880 1790001250 1790001250 1790000860 1790000671 1790001250 1790001250	S.DIO S.DIO	Except (EXP], (EXP-1), (EXP-2) only MA2S111-(TX) MA2S728-(TX) MA2S111-(TX) MA2S111-(TX) MA2S111-(TX) MA2S111-(TX) MA2S111-(TX) RB551V-30TE-17 MA2S111-(TX) MA2S077-(TX) MA133 (TX) SB07-03C-TB-E MA2S111-(TX) AVR-M1005C080MTABB	88888888888	8.3/83.6 11/83.8 41.2/78.9 40.1/74.9 14.3/82.4 40.7/80.6 41.5/41.1 41.3/7.3 49.5/64.2 40.6/85.1 14.2/5 6.4/5.9 16.5/55.3 48/57.1
X1	6050011830	S.XTL	CR-774 (12.288 MHz)	В	41.6/88.7
L100	6190001571	S.COL	CDRH5D28NP-101NC 100U	В	36.5/3.7
R1 R2 R3 R4 R5 R6 R7 R8	7030005120 7030005120 7030005120 7030005120 7030005120 7030005120 7030005120 7030005240	S.RES S.RES S.RES S.RES S.RES S.RES	ERJ2GEJ 102 X (1 k) ERJ2GEJ 473 X (47 k)	B B B B B B B	31.2/87.7 28.5/87.7 27.5/87.7 26.5/87.7 25.5/87.7 24.5/87.7 23.5/87.7 24.4/70.1

[LOGIC UNIT]

REF	ORDER				H/V
NO.	NO.		DESCRIPTION	M.	LOCATION
R9	7030005530	S.RES	ERJ2GEJ 100 X (10)	В	37.8/83.7
R10	7030005160	S.RES	ERJ2GEJ 105 X (1 M)	В	37.4/85.5
R11 R12	7030008010 7030005530	S.RES S.RES	ERJ2GEJ 123 X (12 k) ERJ2GEJ 100 X (10)	B B	40.9/83.1 36/68.5
R13	7030005090	S.RES	ERJ2GEJ 104 X (100 k)	В	40/81.9
R14	7030008010	S.RES	ERJ2GEJ 123 X (12 k)	В	41.3/81.9
R50	7030005240	S.RES	ERJ2GEJ 473 X (47 k)	В	37.3/69.7
R51	7030005050	S.RES	ERJ2GEJ 103 X (10 k)	В	36.4/69.7
R52 R53	7510001660 7030005840	S.TMR S.RES	NTCG16 4LH 473KT RR0510R-473-D (47 k)	B B	11.5/86.3 12/87.6
R54	7030011000	S.RES	RR0510P-392-D (3.9 k)	В	41.2/76.9
R55	7030005240	S.RES	ERJ2GEJ 473 X (47 k)	В	41.4/75.7
R56	7030005120	S.RES	ERJ2GEJ 102 X (1 k)	В	40/77.5
R57	7030005240	S.RES	ERJ2GEJ 473 X (47 k)	В	19.8/83
R58 R59	7030005120 7030005040	S.RES S.RES	ERJ2GEJ 102 X (1 k) ERJ2GEJ 472 X (4.7 k)	B B	19.8/82.1 16.3/81.1
R60	7030005040	S.RES	ERJ2GEJ 472 X (4.7 k)	В	16.4/82.4
R61	7030007290	S.RES	ERJ2GEJ 222 X (2.2 k)	В	13.6/81.1
R62	7030004980	S.RES	ERJ2GEJ 101 X (100)	В	42.8/77.7
R63	7030004980	S.RES	ERJ2GEJ 101 X (100)	T	51.2/71.9
R64	7030005090	S.RES	ERJ2GEJ 104 X (100 k)	В	21/86.6
R65 R66	7030005120 7030010040	S.RES S.RES	ERJ2GEJ 102 X (1 k) ERJ2GEJ-JPW	B B	21.4/88 29.2/56.7
R100	7030007290	S.RES	ERJ2GEJ 222 X (2.2 k)	В	43.2/39.1
R101	7030005090	S.RES	ERJ2GEJ 104 X (100 k)	В	42.4/62.5
R102	7030005160	S.RES	ERJ2GEJ 105 X (1 M)	В	41.4/42.1
R103	7030005050	S.RES	ERJ2GEJ 103 X (10 k)	В	41.9/40
R104 R105	7030005120	S.RES S.RES	ERJ2GEJ 102 X (1 k) RR0510R-104-D (100 k)	B B	45.2/43.2 14/85
R106	7030008270	S.RES	RR0510R-223-D (22 k)	В	21.4/89.8
R111	7030000190	S.RES	MCR10EZHJ 27 (270)	В	13.3/78
R112	7030000190	S.RES	MCR10EZHJ 27 (270)	В	15.1/78
R113	7030000190	S.RES	MCR10EZHJ 27 (270)	В	16.8/78
R114	7030005050	S.RES	ERJ2GEJ 103 X (10 k)	В	18.3/69
R115 R116	7030008010 7030005120	S.RES S.RES	ERJ2GEJ 123 X (12 k) ERJ2GEJ 102 X (1 k)	B B	19.5/69.5 15.8/64.2
R117	7030005120	S.RES	ERJ2GEJ 473 X (47 k)	В	14.1/62.4
R118	7030005160	S.RES	ERJ2GEJ 105 X (1 M)	В	15.3/61.9
R150	7030003210	S.RES	ERJ3GEYJ 120 V (12)	В	19.8/5.6
R151	7030003210	S.RES	ERJ3GEYJ 120 V (12)	В	18.5/5.6
R152 R153	7030003200	S.RES S.RES	ERJ3GEYJ 100 V (10) ERJ3GEYJ 8R2V (8.2)	B B	17.2/5.6 15.9/5.6
R154	7030007800	S.RES	ERJ2GEJ 102 X (1 k)	В	16.7/1.6
R155	7030005120	S.RES	ERJ2GEJ 102 X (1 k)	В	12.6/2.8
R156	7030005800	S.RES	RR0510P-102-D (1 k)	В	9.5/5.6
R157	7030005810	S.RES	RR0510P-152-D (1.5 k)	В	9.5/3.7
R158	7030007280	S.RES S.RES	ERJ2GEJ 331 X (330)	B B	9.5/2.8
R159 R160	7030008270 7030005830	S.RES	RR0510R-104-D (100 k) RR0510R-223-D (22 k)	В	6.8/8.1 5.6/9.1
R161	7030005800	S.RES	RR0510P-102-D (1 k)	В	9.5/4.6
R200	7030007280	S.RES	ERJ2GEJ 331 X (330)	Т	10.9/53.5
R201	7030007280	S.RES	ERJ2GEJ 331 X (330)	T	10/53.5
R202	7030005040	S.RES	ERJ2GEJ 472 X (4.7 k) ERJ2GEJ 331 X (330)	T	39.7/27.9
R203 R204	7030007280 7030008370	S.RES S.RES	ERJ2GEJ 551 X (550)	T T	39.7/27 42.8/25.7
R205	7030005120	S.RES	ERJ2GEJ 102 X (1 k)	Ť	41.9/25.7
R206	7030005120	S.RES	ERJ2GEJ 102 X (1 k)	Т	41/25.7
R207	7030008370		ERJ2GEJ 561 X (560)	T	44.6/25.7
R208	7030008370		ERJ2GE J 561 X (560)	T	43.7/25.7
R209 R210	7030008370 7030007280	S.RES S.RES	ERJ2GEJ 561 X (560) ERJ2GEJ 331 X (330)	T	45.5/25.7 36.6/26.5
R211	7030009160	S.RES	ERJ2GEJ 181 X (180)	Ť	41/27.5
R212	7030009160	S.RES	ERJ2GEJ 181 X (180)	Т	41.9/27.5
R213	7030005090	S.RES	ERJ2GEJ 104 X (100 k)	В	30.6/58.3
R300	7030005060	S.RES	ERJ2GE J 102 V (1 k)	B T	48/56
R301 R302	7030005120 7030004980	S.RES S.RES	ERJ2GEJ 102 X (1 k) ERJ2GEJ 101 X (100)	B	41.4/55.3 41.4/55.7
R303	7030004300	S.RES	ERJ2GEJ 332 X (3.3 k)	В	43.9/56.1
R304	7030005090	S.RES	ERJ2GEJ 104 X (100 k)	В	45.5/54.8
R305	7030005240	S.RES	ERJ2GEJ 473 X (47 k)	В	48.8/51.3
R307	7030007290	S.RES	ERJ2GE J 222 X (2.2 k)	В	45.5/53
R308 R309	7030005000 7030005050	S.RES S.RES	ERJ2GEJ 471 X (470) ERJ2GEJ 103 X (10 k)	T	39.6/53.6 41.4/52.6
R310	7030005050	S.RES	ERJ2GEJ 102 X (10 k)	Ť	41.4/53.5
R311	7030007290	S.RES	ERJ2GEJ 222 X (2.2 k)	Т	41.4/54.4
R312	7030005110	S.RES	ERJ2GEJ 224 X (220 k)	T	44.9/47.4
R313	7030005160	S.RES	ERJ2GEJ 105 X (1 M)	В	47.5/49
R314 R316	7030005110 7030008410	S.RES S.RES	ERJ2GEJ 224 X (220 k) ERJ2GEJ 392 X (3.9 k)	B B	41/50.4 45.8/50.5
R317	7030005030	S.RES	ERJ2GEJ 392 X (3.9 k) ERJ2GEJ 152 X (1.5 k)	В	45.6/50.5
R318	7030010040	S.RES	ERJ2GEJ-JPW	В	38.6/52.6
R319	7030005100	S.RES	ERJ2GEJ 154 X (150 k)	В	38.6/54.2
R320	7030005040	S.RES	ERJ2GEJ 472 X (4.7 k)	В	38.6/55.8
R321 R322	7030005120 7030005240	S.RES S.RES	ERJ2GEJ 102 X (1 k) ERJ2GEJ 473 X (47 k)	B B	39.8/55.7 39.9/48.7
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REF NO.	ORDER NO.		DESCRIPTION	М.	H/V LOCATION	REF NO.	ORDER NO.		DESCRIPTION	М.	H/V LOCATION
R323	7030007340	S.RES	ERJ2GEJ 153 X (15 k)	В	35.9/52	C70	4030017620	S.CER	ECJ0EC1H100C	Т	51.2/69.8
R324	7030007340	S.RES	ERJ2GEJ 153 X (15 k)	В	32.8/50	C100	4030017460	S.CER	ECJ0EB1E102K	В	50/38
R325 R326			ERJ2GEJ 153 X (15 k) ERJ2GEJ 224 X (220 k)	B B	21.4/47.7 32.3/48.4	C101 C102	4030011600 4030011600		C1608 JB 1E 104K-T C1608 JB 1E 104K-T	B B	48.8/62.2 42.3/60
R327	7030005110		ERJ2GEJ 104 X (100 k)	В	21.4/48.6	C102	4550006250		TEESVA 1A 106M8R	В	50.5/61.1
R328	7030005090	S.RES	ERJ2GEJ 104 X (100 k)	В	21.4/46.8	C104	4030016930		ECJ0EB1A104K	В	48.8/60.1
R331 R332			ERJ2GEJ 154 X (150 k) ERJ2GEJ 471 X (470)	B B	32.3/46.5 34.7/49	C105 C106	4550007320 4030016790		F930J226MAABMA ECJ0EB1C103K	B B	39.4/41.5 42.8/43.3
R333	7030003000		ERJ2GEJ 272 X (2.7 k)	В	34.7/48.1	C100	4030017460		ECJ0EB1E102K	В	41.9/43.3
R334	7030005080		ERJ2GEJ 823 X (82 k)	В	34.7/47.2	C108	4550007320		F930J226MAABMA	В	48.3/42.2
R335 R336	7030005090 7030005080		ERJ2GEJ 104 X (100 k) ERJ2GEJ 823 X (82 k)	B B	31.2/49.1 34.6/50.8	C109 C110	4030016930 4030017460		ECJ0EB1A104K ECJ0EB1E102K	B B	43.7/43.3 50/37
R337	7030007350		ERJ2GEJ 393 X (39 k)	В	34.1/53.7	C111	4550007320	S.TAN	F930J226MAABMA	В	48.3/40.1
R338	7030005050		ERJ2GEJ 103 X (10 k)	В	34.1/55.3	C112	4030017460		ECJ0EB1E102K	В	41/43.3
R339 R340	7030007350		ERJ2GEJ 393 X (39 k) ERJ2GEJ 392 X (3.9 k)	B B	35.1/55.3 36/55.3	C113 C114	4550006760 4550007680		TEESVB21A336M8R TEESVP 0J 226M8R	B	41.2/3.8 32.4/2
R341	7030005070	S.RES	ERJ2GEJ 683 X (68 k)	В	34.7/45.4	C115	4550007680	S.TAN	TEESVP 0J 226M8R	В	45.4/6.8
R342 R343	7030007350		ERJ2GEJ 393 X (39 k)	B B	34.7/46.3	C116 C119	4550007680		TEESVP 0J 226M8R ECJ0EB1E102K	B B	32.4/6.6
R344	7030005090		ERJ2GEJ 104 X (100 k) ERJ2GEJ 474 X (470 k)	В	21.4/49.5 22.6/49.4	C120	4030017460 4030017460		ECJ0EB1E102K ECJ0EB1E102K	В	19.1/78.2 18.2/78.2
R345	7030007290	S.RES	ERJ2GEJ 222 X (2.2 k)	В	22.7/39.8	C121	4550006470	S.TAN	TEESVB2 1D 106M8R	В	15.4/74.6
R346 R347	7030008290		ERJ2GEJ 183 X (18 k) ERJ2GEJ-JPW	B B	49.7/51.3 43.8/54.8	C122 C123	4030017460 4030016930		ECJ0EB1E102K ECJ0EB1A104K	B	17.8/72.3 14.5/60.6
R348			ERJ2GEJ 101 X (100)	В	30.3/54	C125	4030010930		ECJ0EB1E102K	В	19.5/68.5
R349	7030007290		ERJ2GEJ 222 X (2.2 k)	В	28.5/17	C126	4030018860		ECJ0EB0J105K	В	14.6/64.6
R350 R351	7030005030		ERJ2GEJ 152 X (1.5 k) ERJ2GEJ 104 X (100 k)	B B	24.4/17 22.4/44.3	C127 C128	4030017460 4030017460		ECJ0EB1E102K ECJ0EB1E102K	B	14.6/63.7 15.3/62.8
R352	7030007320		ERJ2GEJ 225 X (2.2 M)	В	37.3/53.7	C130	4030018860	S.CER	ECJ0EB0J105K	В	48.6/9.2
R353	7030010040		ERJ2GEJ-JPW	В	42.2/50	C131	4030018860		ECJ0EB0J105K	В	48.6/10.1
R401 R402	7030005240 7030005090		ERJ2GEJ 473 X (47 k) ERJ2GEJ 104 X (100 k)	B B	38.4/82.5 39.7/20.3	C132 C150	4030012610 4030017460		C2012 JB 1C 474K-T ECJ0EB1E102K	B	49.8/11.5 14.5/6.5
R500	7030005050		ERJ2GEJ 103 X (10 k)	В	8.4/35.7	C151	4030017460	S.CER	ECJ0EB1E102K	В	13.4/1.8
R501			ERJ2GEJ 105 X (1 M)	В	9.6/42	C152	4030017460		ECJ0EB1E102K	В	9.5/1.9
R502 R503	7030005050 7030005160		ERJ2GEJ 103 X (10 k) ERJ2GEJ 105 X (1 M)	B B	8.4/37.4 10.5/36.8	C153 C200	4030017460 4550007690		ECJ0EB1E102K TEESVP 1C 105M8R	B	5/10 18.8/54.9
R504	7030010040	S.RES	ERJ2GEJ-JPW `	В	39.8/57.5	C201	4550007690	S.TAN	TEESVP 1C 105M8R	Т	20.6/54.9
R505	7030007290		ERJ2GEJ 222 X (2.2 k)	B B	39.8/56.6	C202	4550007690		TEESVP 1C 105M8R	T	22.3/54.9
R506 R507	7030005050		ERJ2GEJ 103 X (10 k) ERJ2GEJ 103 X (10 k)	В	10.5/39 8.7/42	C203 C204	4550007690 4550007690		TEESVP 1C 105M8R TEESVP 1C 105M8R	†	24.1/54.9 25.8/54.9
R508	7030005050	S.RES	ERJ2GEJ 103 X (10 k)	В	9.6/35.7	C205	4550007700	S.TAN	TEESVP 1C 225M8R	В	22.5/55.8
R509 R550	7030003440 7030007260		ERJ3GEYJ 102 V (1 k) ERJ2GEJ 330 X (33)	B B	41.1/58.2 19.5/53.1	C206 C207	4550007700 4550007700		TEESVP 1C 225M8R TEESVP 1C 225M8R	B B	24.3/55.8 26.1/55.8
R551	7030007200		ERJ2GEJ 100 X (10)	В	14.5/59.7	C207	4550007700		TEESVP 1C 225M8R	В	27.8/55.8
R552	7030005210	S.RES	ERJ2GEJ 822 X (8.2 k)	В	20.5/56.6	C209	4030017460	S.CER	ECJ0EB1E102K	T	15.4/55.7
R553	/030005120	S.RES	ERJ2GEJ 102 X (1 k) [USA], [USA-1], [EXP-2]	В	17.2/53.1	C210 C211	4030017460 4030017460		ECJ0EB1E102K ECJ0EB1E102K	T	16.5/53.2 43.7/29.8
	7030008010	S.RES	ERJ2GEJ 123 X (12 k)		17.2,00.1	C212	4030017460	S.CER	ECJ0EB1E102K	В	37.9/43.3
Dood	7000005400	0.050	Except [USA], [USA-1], [EXP-2]		17.2/53.1	C213	4030018910		C1608 JB 0J 475K-T	T	38/26.2
R601 R602			ERJ2GEJ 102 X (1 k) ERJ2GEJ 102 X (1 k)	B B	3.7/55.9 2.8/55.9	C214 C215	4030017460 4030017460		ECJ0EB1E102K ECJ0EB1E102K	T	39.2/25.7 40.1/25.7
R603	7030005120	S.RES	ERJ2GEJ 102 X (1 k)	В	11.6/67.2	C300	4030017460	S.CER	ECJ0EB1E102K	Т	37.7/54.8
R604 R605	7030005120		ERJ2GEJ 102 X (1 k)	B B	11.1/62.9 11.1/65.1	C301 C302	4030016790		ECJ0EB1C103K ECJ0EB1E102K	T B	37.7/55.7
H003	7030003120	J.NEJ	ERJ2GEJ 102 X (1 k)		11.1/05.1	C302	4030017460 4030016930		ECJ0EB1A104K	В	51.5/51.3 50.6/51.3
 				_		C305	4030016930		ECJ0EB1A104K	В	47.9/51.3
C1 C2			ECJ0EB1A104K ECJ0EB1A104K	B B	35.5/69.7 39.3/83.3	C306 C308			TEESVJ 0J 106M8R ECJ0EB1E102K	В	42.8/56.6 37.7/53.9
C3			ECJ0EB1A104K	В	36.6/83.5	C309			ECJ0EB1E102K	Ť	45.8/47.4
C4			ECJ0EB1A104K	В	34.2/86.1	C310			ECJ0EB1A473K	T	44/47.4
C5 C6			ECJ0EB1E102K ECJ0EB1E102K	B B	31.2/90 28.5/90	C311 C312			TEESVA 1A 106M8R ECJ0EB1C103K	B	45.6/47 47.1/47.8
C7	4030017460	S.CER	ECJ0EB1E102K	В	27.5/90	C313	4030016930	S.CER	ECJ0EB1A104K	В	41.3/48.9
C8 C9			ECJ0EB1E102K ECJ0EB1E102K	B B	26.5/90 25.5/90	C314 C316			ECJ0EB1A104K ECJ0EB1A104K	B	44.9/50.4 43.1/50
C10			ECJ0EB1E102K ECJ0EB1E102K	В	24.5/90	C317			ECJ0EB1A104K	В	41.4/54.8
C11	4030017460	S.CER	ECJ0EB1E102K	В	23.5/90	C318	4030016950	S.CER	ECJ0EB1A473K	В	37.3/51.9
C12 C13	4030016930	S.CER	ECJ0EB1A104K ECJ0EC1H150J	B B	23.9/71.8 36.2/85.1	C319 C320			ECJ0EB1A563K ECJ0EB1E102K	B	34.7/49.9 40/45.4
C14			ECJ0EC1H100C	В	37.7/84.6	C321			ECJ0EB1E102K	В	40/46.3
C15			ECJ0EC1H220J	В	40.9/84	C322			ECJ0EB1E102K	В	37.3/49
C16 C17			ECJ0EB1A104K ECJ0EB1A104K	B B	38.9/85.2 20.3/84.2	C323 C324			ECJ0EB1E102K ECJ0EB0J105K	B	39.9/47.7 37.3/52.8
C32	4550007720	S.TAN	TEESVP 0G 476M8R	В	33.1/88.5	C326			ECJ0EB1A104K	В	39.8/54.8
C50			ECJ0EB1E102K	В	19.9/85.4	C327			ECJ0EB1E332K	В	37.3/54.6
C51 C52			ECJ0EB1E102K ECJ0EB1E102K	B B	22.2/87.1 21.7/88.9	C328 C329			ECJ0EB1C103K ECJ0EB1E102K	B	37.3/55.5 33.9/52
C53	4030017460	S.CER	ECJ0EB1E102K	В	12/89.1	C330	4550000460	S.TAN	TEESVA 1C 105M8R	В	24.9/51.4
C54			ECJ0EB1E102K	B B	12/90	C331			ECJ0EC1H181J	B	31.4/46.5
C55 C56			ECJ0EB1E102K ECJ0EB1E102K	В	37.3/68 41.1/74.5	C332 C333			ECJ0EB1A683K ECJ0EB0J105K	В	36/48.8 36.7/46.5
C57	4030017400	S.CER	ECJ0EC1H220J	В	42/74.5	C334	4030018110	S.CER	ECJ0EB1H272K	В	35/52
C58 C59			ECJ0EB1E102K ECJ0EB1E102K	B B	20.2/80.9 19.3/80.9	C335 C336			ECJ0EB1C103K TEESVA 0G 226M8R	B	30.3/53.1 30.1/51.5
C60			ECJ0EB1E102K ECJ0EB1E102K	В	15.4/81.1	C338	4550006010	S.TAN	TEESVA 0G 106M8R	В	32.4/55.4
C61	4030017460	S.CER	ECJ0EB1E102K	В	14.5/81.1	C339	4030017920	S.CER	ECJ0EB1A683K	В	34.1/57
C62 C63			ECJ0EB1A104K C1608 JB 1A 224K-T	T B	51.1/78.1 48.4/78.1	C340 C341	4030017040 4030017460		ECJ0EB1A333K ECJ0EB1E102K	B	35.1/53.7 37.2/57.3
C64	4030011810	S.CER	C1608 JB 1A 224K-T	В	49.6/78.1	C342	4030018140	S.CER	ECJ0EB1H391K	В	33.4/45.8
C65			C1608 JB 1A 224K-T	В	47.2/76	C343	4030017040	S.CER	ECJ0EB1A333K	В	22.3/41
C66 C69			C1608 JB 1A 224K-T ECJ0EC1H100C	B B	50.5/80.1 42.8/76.7	C344 C345			ECJ0EB1E102K ECJ0EB1E102K	B B	21.1/37.4 9.6/38.7
		J.JL11			.2.0,70.7				d on the Top side B: Mounted on	_	

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[MAIN UNIT]

<u>[LUGI</u>	C UNIT]				[MAIN UNIT]					
REF NO.	ORDER NO.	DESCRIPTION	М.	H/V LOCATION	REF NO.	ORDER NO.		DESCRIPTION	м.	H/V LOCATION
C346 C347 C348 C349 C350 C351 C352 C353 C400 C505 C506 C509 C510	4550007730 4030017460 4030018860 4030017460 4030017460 4550007730 4030018960 4030018860 4030017460 4550007720 4030018860 4030018860 4030018860 4030018860	S.TAN TEESVP 0G 476M8R S.CER ECJ0EB0J105K S.CER ECJ0EB0J105K S.CER ECJ0EB1A104K	B B B B B B B B B B B B B B B B B B B	18.7/46.7 21.2/39.8 17.6/46.2 21.5/44.3 20.6/44.3 46.9/51 24.4/17.9 42.2/51 3.7/79.1 8.6/40.4 7.5/35.7 7.5/37.4 39.8/58.4	IC50 IC100 IC150 IC200 IC250 IC400 IC500 IC501 IC700 IC701 IC702 IC703	1110005230 1110005230 1110005330 1110005330 1110005330 1130011671 1130011770 1130011770 1130011760 1130011770	S.IC S.IC S.IC S.IC S.IC S.IC S.IC S.IC	µPC2757TB-E3 TA31136FNG (EL) NJM12904V-TE1 TA31136FNG (EL) NJM12904V-TE1 MB15E03SLPFV1-G-BND-E1 CD4066BPWR NJM12904V-TE1 CD4066BPWR CD4094BPWR CD4094BPWR CD4094BPWR CD4066BPWR	T B B B T B B T B T T	24.3/17.8 47.3/27.4 18.3/29.3 41.7/27.4 13.4/39.9 31.9/6.9 18.4/40.5 18.3/20.3 8.9/40 12.5/9 12.5/9.1 8.9/45.5
C550 C551 C553 C554 C555 C556 C655	4030017780 4030016930 4550002960 4510008500 4030016950 4030017460 4510005590 4510009020	S.TAN TEESVA 1C 155M8R		17.9/49.5 18.8/49.5 19.7/51.4 13.6/49.6 15.8/60.2 10.9/45.6 5.6/47.3	Q1 Q2 Q100 Q101 Q102 Q103 Q104 Q105 Q150 Q200	1530002280 1530003260 1530002601 1590003390 1590002380 1590001190 1590003250 1590003250 1530002601	S.TR S.TR S.TR S.TR S.TR S.TR S.TR S.TR	2SC4081 T106 S 2SC5006-T1 2SC4215-O (TE85R) UNR9215J-(TX) XP1115 (TX) XP6501-(TX) AB XP6501-(TX) AB UNR9115J-(TX) UNR9115J-(TX) UNR9115J-(TX)	T T B T T B B T T B T	23.6/20.8 26.6/27.5 47.2/37.9 33.9/39.7 36.5/40.3 27.8/34.1 25.5/38.9 24.7/38.4 20.9/38.9 39.4/33.4
J50 J200 27/62.1 J400 J401	6510024580 6510023390 6510023391 6510025540 6510025080	S.CNR HSJ1621-019011 S.CNR 27FLZ-SM1-TB [USA], [USA-1], [TPE], [EXP-2] S.CNR 27FLZ-SM2-TB (LF) (SN) Except [USA], [USA-1], [TPE], [EXP-2] S.CNR AXK724127G S.CNR 04-6240-040-001-800+	B B B	53.3/70.5 27/62.1 B 33.9/18.9 7.5/67.8	Q201 Q202 Q203 Q204 Q205 Q206 Q250 Q300 Q301	1530002280 1590001190 1590003250 1590003250 1590003250 1590003250 1590003250 1590003250	S.TR S.TR S.TR S.TR S.TR S.TR S.TR S.TR	2SC4081 T106 S XP6501-(TX) AB XP6501-(TX) AB UNR9115J-(TX) UNR9115J-(TX) UNR9215J-(TX) UNR9115J-(TX) UNR9115J-(TX) UNR9115J-(TX) 2SC5195-T1	T T T T T	33.1/32.2 16.2/18.5 17.3/23.6 17.5/15.9 31.7/35.6 35.7/32.2 17.5/13.5 31.4/27.4 30.7/22.1
DS1 DS201 DS202 DS203 DS204 DS205 DS206 DS207 DS208 DS209 DS210 DS211	5030002880 5040002670 5040002930 5040002930 5040002930 5040002930 5040002930 5040002930 5040002930 5040002930 5040002960 5040002960	S.LED CL-165HR/YG S.LED SML-512MW T86	T T T T T T T	5.1/55.6 11.1/38 13.1/23 22.7/14.6 39.9/14.8 14.1/7.8 31.3/7.3 48.5/8.3 5.1/49.5 18/87 36/87	Q350 Q351 Q353 Q450 Q451 Q452 Q453 Q500 Q550 Q552 Q600 Q601 Q602 Q603 Q604 Q650 Q651	1590003250 1530003560 1530002601 1530002601 1530002601 1530002601 1590001980 1590001190 1530002280 1590001170 1520000460 1590001170 1590002380 1590003280 1590001170	S.TR S.TR S.TR S.TR S.TR S.TR S.TR S.TR	UNR9115J-(TX) 2SC5195-T1 2SC5006-T1 2SC4215-O (TE85R) 2SC4215-O (TE85R) 2SC4215-O (TE85R) XP4315 (TX) UNR9215J-(TX) XP6501-(TX) AB 2SC4081 T106 S 2SB1132 T100 R XP1501-(TX) AB 2SB1132 T100 R XP1501-(TX) AB XP11501-(TX) AB	T T B B B T B T T B B B T T T T	33.4/26.4 34.3/18.1 30.1/16.7 36.6/7 41.7/9.2 45.7/7.2 45.7/7.2 45.1/7.6 18.2/32.2 15.1/36.3 4/37.2 6.1/41.1 4.5/6.1 5.3/6.9 11.2/25.8 19.7/5 22.5/6.8
SP1	2510000840	SP CS028014-12			Q652 D10	1520000460	S.TR	2SB1132 T100 R	T	26.6/8.4
W1 W2 W3 EP50 EP51		JMP ERDS2T0	ВВВ	48.3/81.4 44.4/76.7	D100 D100 D104 D105 D200 D204 D205 D300 D301	1790001250 1790001240 1790001240 1790001250 1750001270	S.DIO S.DIO S.DIO S.DIO S.DIO S.DIO S.VCP	HSB8ASTR-E MA2S728-(TX) MA2S728-(TX) MA2S111-(TX) MA2S728-(TX) MA2S728-(TX) MA2S111-(TX) MS2S111-(TX) HVC376BTRF-E	T B B B T T	25.3/23.4 26.3/35.3 24.6/35.9 22.1/36.3 35.5/28.8 19.5/20.4 17.2/27.3 28.2/24.9 28.7/23.2
EP51 EP52 EP53 EP100 EP101	6910015370 6910015370 6910015370	S.BEA ACZ1005Y-102-T S.BEA ACZ1005Y-102-T S.BEA ACZ1005Y-102-T S.BEA ACZ1005Y-102-T S.BEA ACZ1005Y-102-T	T T B B	51.2/68.6 52.1/66.9 43.4/6.4 32.6/4	D350 D351 D352 D451	1750000721 1790000850 1750000721	S.VCP S.DIO S.VCP	HVC375BTRF-E MA132WK (TX) HVC375BTRF-E MA2S728-(TX)	T T T	32.3/21.1 28.1/19.8 34/21.9 48.2/5.7
					FI1 FI2 FI50 FI100 FI200 FI201	2020001800 2030000150 2020001270 2020001270	S.CER S.MLH CER CER	FL-394 (61.65 MHz) SFECV13M3DA0001-B0 FL-335 (46.350 MHz) CFWLB450KE2A-B0 CFWLB450KE2A-B0 CFWKA450KHFA-R0	B B B	23.6/27.6 33.1/32.5 30.7/24 33.2/14.5
					X100 X200 X450	6070000190 6070000190	S.DCR S.DCR	CDBCB450KCAY24-R0 CDBCB450KCAY24-R0 CR-826 (15.3 MHz)	T T T	47.5/35.8 41/35.8 46.4/8.3
					L1 L10 L30	6200011031 6200010380	S.COL S.COL	ELJRE R18GFA ELJRF R10JFB ELJRE R15J-F3 [USA-1], [EXP-2] ELJRE R15JFA		25.2/25.4 22.3/18.6 23.8/17
					L50 L100 L101 L102 L103	6200011021 6200003540 6200003131 6200003540	S.COL S.COL S.COL S.COL	Except [USA-1], [EXP-2] ELJRF 82NJFB MLF1608D R22K-T NLV32T-120J MLF1608D R22K-T MLF1608D R22K-T	B T B T B	23.8/17 26.9/16.2 48.7/35.1 48.6/40.8 50.6/34.2 51.2/23.9

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REF NO.	ORDER NO.		DESCRIPTION	М.	H/V LOCATION	REF NO.	ORDER NO.	DESCRIPTION	М.	H/V LOCATION
L200	6200003540	S.COL	MLF1608D R22K-T	В	41.6/34.8	R220	7030005100	S.RES ERJ2GEJ 154 X (150 k)	Т	18.2/19.6
L201	6200003540		MLF1608D R22K-T	В	42.2/33	R221	7030005240		T	15.3/23
L202			MLF1608D R22K-T	В	41.4/20.9	R222	7030004980		T	19.2/18
L301 L351	6200011580 6200009220		LQW18AN33NG00D LQW18AN15NG00D	T	27.5/22.9 34.1/20.7	R223 R224	7030005230 7030005700		T	17.2/25.9 19.3/27.2
L450	6200005190		MLF1608D R56K-T	В	43.7/8.2	R225	7030005700		Ϊ́τ	19.3/25.4
L451			MLF1608D R56K-T	В	43.9/11.9	R227	7030008010		В	38.3/19.5
L452	6200004790		MLF1608D R47K-T	В	47.7/6.5	R228	7030008010		В	38.1/12.5
L453	6200004790		MLF1608D R47K-T	В	47.9/10.8	R229	7030008010		В	40.6/17.2
L454	6200004920	S.COL	MLF1608A 2R2K-T	Т	41.4/6.5	R230 R231	7030008010 7030008010		B	39.6/17.2
						R232	7030008010		В	40.6/22.7 38.4/17.7
R6	7030007290	S.RES	ERJ2GEJ 222 X (2.2 k)	В	22.6/22	R233	7030007340		T	18.7/17
R7	7030007290		ERJ2GEJ 222 X (2.2 k)	В	25.4/20.8	R234	7030007350		Т	17.2/28.6
R8	7030008280		ERJ2GEJ 271 X (270)	В	25/22.2	R235	7030005060		Т	37.3/31.3
R9			ERJ2GEJ 181 X (180)	В	23.5/32.5	R250	7030005050		В	7.9/44.6
R10 R11	7030007290 7030007290		ERJ2GEJ 222 X (2.2 k) ERJ2GEJ 222 X (2.2 k)	B	25.3/33.4 34.4/36.6	R251 R252	7030010040 7030005080		B	6.4/45.5 18/45.3
R14	7030007290		ERJ2GEJ 560 X (56)	В	25.2/18.7	R253	7030005080		В	11.4/44.6
R15	7030005090		ERJ2GEJ 104 X (100 k)	T	23/23.2	R254	7030005080		В	13.2/44.6
	7030007280		ERJ2GEJ 331 X (330)	Т	23/25.6	R255	7030005230		В	10.8/37.7
R17	7030005090		ERJ2GEJ 104 X (100 k)	T	23.6/27.9	R256	7030005100		В	10.4/41.6
	7030007280		ERJ2GEJ 331 X (330)	T	22.6/27.9	R257	7030005070		В	10/42.8
R19 R23			ERJ2GEJ 222 X (2.2 k) ERJ2GEJ-JPW	B	35.1/40 30.5/29.4	R258 R259	7030005240 7030005160		B	10.9/42.8 10.4/39.8
R24	7030010040		ERJ2GEJ 331 X (330)	В	34.7/29.8	R300	7030003100		T	31.8/25.4
R51	7030007270		ERJ2GEJ 151 X (150)	В	26.6/20.5	R301	7030005290		T	29.3/21
R52	7030009160	S.RES	ERJ2GEJ 181 X (180)	В	35.6/26.4	R302	7030005050	S.RES ERJ2GEJ 103 X (10 k)	Т	30/19.3
R55			ERJ2GEJ 102 X (1 k)	В	27.5/5	R303	7030007270		T	32.2/23.3
R100 R101	7030007340		ERJ2GEJ 153 X (15 k)	B	46.8/33.9	R304 R305	7030005120 7030005040		T	28.5/25.9
R101			ERJ2GEJ 682 X (6.8 k) ERJ2GEJ 470 X (47)	В	46.3/35.2 44.9/38.1	R306	7030005040		'T	18.1/28.6 15.2/27.9
R104			ERJ2GEJ 221 X (220)	В	47.8/32.7	R350	7030003030		Ϊ́τ	34/24.3
R105	7030005010		ERJ2GEJ 681 X (680)	Т	48.7/43.1	R351	7030005290		Т	32.8/19.1
R106			ERJ2GEJ 821 X (820)	T	51.3/33.5	R352	7030005050		T	31.5/18.3
R107			ERJ2GEJ 473 X (47 k)	В	48.7/32.7	R353	7030007280		T	34.6/16.3
R108 R109			ERJ2GEJ 152 X (1.5 k) ERJ2GEJ 563 X (56 k)	B	48.3/23.1 45.7/28.3	R354 R355	7030007270 7030005070		T	28.7/18 28.3/15.9
R110			ERJ2GEJ 153 X (15 k)	Ϊ́	44.1/27.4	R356	7030005070		Ϊ́τ	34.4/23
R111	7030005100		ERJ2GEJ 154 X (150 k)	Ť	45.7/26.5	R400	7030005120		В	32.4/6.4
R112			ERJ2GEJ 102 X (1 k)	Т	44.1/26.5	R401	7030005120	S.RES ERJ2GEJ 102 X (1 k)	В	31.5/6.4
R113			ERJ2GEJ 124 X (120 k)	T	45/24.1	R402	7030005120		В	30.6/6.4
R114			ERJ2GEJ 123 X (12 k)	T B	49.4/23.2	R403	7030005120		B	30.1/4.5
R115 R116			ERJ2GEJ 123 X (12 k) ERJ2GEJ 123 X (12 k)	В	50.1/17.4 49.9/18.3	R404 R405	7030009270 7030008250		¦	36.3/8 35.6/9.6
R117			ERJ2GEJ 102 X (1 k)	В	48.5/17.4	R406	7030011170		Ť	35.1/11.6
R118			ERJ2GEJ 123 X (12 k)	Т	51.3/23.7	R410	7030005580		Т	28.2/12.1
R119			ERJ2GEJ 123 X (12 k)	В	47.6/20.5	R450	7030006610		T	50/8.3
R120			ERJ2GEJ 152 X (1.5 k)	В	26.6/37	R451	7030007340		T	48.5/11.3
R121 R122			ERJ2GEJ 102 X (1 k) ERJ2GEJ 473 X (47 k)	B	28.2/37 28.2/36	R452 R453	7030005100 7030005700		T	45.7/10.9 49.4/11.3
R123			ERJ2GEJ 154 X (150 k)	В	25.9/34.7	R455	7030003700		В	38.6/6.8
R124	7030005170		ERJ2GEJ 474 X (470 k)	В	24.3/37	R456	7030005070		В	34.9/6.7
R125	7030005600		ERJ2GEJ 273 X (27 k)	В	23.6/40.2	R457	7030005080		В	33.4/7.6
R126			ERJ2GEJ 333 X (33 k)	В	21.8/40.2	R458	7030005120		В	38.7/9.5
R127 R129			ERJ2GEJ 472 X (4.7 k)	В	23.6/38.5	R459 R460		S.RES ERJ2GEJ 471 X (470) S.RES ERJ2GEJ 104 X (100 k)	B	42.5/6.6 41.3/7.5
R130			ERJ2GEJ 101 X (100) ERJ2GEJ 153 X (15 k)	В	26.2/37.8 25/34.6	R470	7030005090 7030005000		В	48.8/6.3
R131	7030005040		ERJ2GEJ 472 X (4.7 k)	В	22.1/37.3	R471	7030005110		В	45.3/5.5
R132			ERJ2GEJ 103 X (10 k)	В	22.8/35	R472	7030007290		В	47.8/12.2
R133			ERJ2GEJ 272 X (2.7 k)	В	21.9/35	R473	7030007290		В	45.8/13.2
R150			ERJ2GEJ 103 X (10 k)	В	21.8/41.9	R474	7030007290		В	45.3/14.6
R151 R152	7030005090		ERJ2GEJ 104 X (100 k) ERJ2GEJ 823 X (82 k)	B	22.7/41.9 19.5/35.8	R500 R501	7030005090 7030005120		B	14.5/15.1 13.6/13.4
R153	7030005080		ERJ2GEJ 823 X (82 k)	В	19.1/34.6	R503	7030008010		В	16.3/15.1
R154			ERJ2GEJ 823 X (82 k)	В	17.8/34.1	R504	7030007060		В	17.8/13.5
R155			ERJ2GEJ 334 X (330 k)	В	15.7/27.6	R505	7030005110		В	15.8/18.9
R156			ERJ2GEJ 154 X (150 k)	В	15.7/31.7	R506	7030005090		В	15.8/17.3
R157 R158			ERJ2GEJ 683 X (68 k) ERJ2GEJ 473 X (47 k)	B	14.8/31.7 15.3/30.4	R507 R508	7030005220 7030005220		B	15.5/20.7 15.7/21.9
R159			ERJ2GEJ 473 X (47 K)	В	14.8/29.2	R509	7030005220		В	14.9/23.5
R200	7030007340		ERJ2GEJ 153 X (15 k)	В	41.8/36.6	R550	7030007290		T	21.9/34.5
R201		S.RES	ERJ2GEJ 682 X (6.8 k)	В	38.1/31.7	R551	7030005290	S.RES ERJ2GEJ 682 X (6.8 k)	Т	15.2/31
R202			ERJ2GEJ 470 X (47)	В	38.6/36.2	R552	7030005050		T	17.1/30.2
R203			ERJ2GEJ 102 X (1 k)	В	42.6/34.4	R553	7030008290		T	16.2/32.7
R204 R205	7030004990		ERJ2GEJ 221 X (220) ERJ2GEJ 122 X (1.2 k)	B	43.1/35.7 42.2/30.9	R554 R555	7030008290 7030008290		T	18.3/34.3 21.3/32.8
R206	7030007370		ERJ2GEJ 122 X (1.2 k)	Ϊ́τ	35.1/33.6	R556	7030008290		Ϊ́τ	18.5/30.5
R207			ERJ2GEJ 473 X (47 k)	Ť	31.3/32.5	R557	7030007340		Ť	20.9/35.1
R208	7030005240	S.RES	ERJ2GEJ 473 X (47 k)	Т	30.9/33.7	R558	7030005530	S.RES ERJ2GEJ 100 X (10)	Т	15/38.3
R209			ERJ2GEJ 473 X (47 k)	T	43.5/31.4	R559	7030007290		T	14.1/38.3
R210	7030005030		ERJ2GE J 152 X (1.5 k)	B	42.7/23.1	R560	7030007340		T	17.4/35.8
R211 R212			ERJ2GEJ 102 X (1 k) ERJ2GEJ 563 X (56 k)	¦	38.5/29.2 40.1/28.3	R561 R562	7030008300 7030005160		T	19.5/38.3 17.7/38.3
R213			ERJ2GEJ 363 X (36 K) ERJ2GEJ 273 X (27 k)	'T	38.5/26.8	R564	7030005160		T	15.2/34.3
R214			ERJ2GEJ 154 X (150 k)	Ť	40.1/26.3	R565	7030009280		T	16.8/38.3
R215	7030005120	S.RES	ERJ2GEJ 102 X (1 k)	Т	38.5/25.9	R566	7030009140	S.RES ERJ2GEJ 272 X (2.7 k)	Т	22.5/33.3
R216			ERJ2GEJ 124 X (120 k)	T	38.6/23.2	R568	7030004980		T	20.1/32.6
R217			ERJ2GE J 102 X (1 k)	T	15.8/21.5	R600	7030005120		В	6.1/43.4
R218 R219	7030005030		ERJ2GEJ 152 X (1.5 k) ERJ2GEJ 473 X (47 k)	T	17.4/21.5 15.8/20.6	R601 R602	7030005120 7030005050		T	7.1/6.4 3.9/4.8
	. 5555552-10	J., 120		+-	.5.5/20.0		-	Mounted on the Top side, B: Mounted on	_	

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REF	ORDER		DESCRIPTION	М.	H/V	REF	ORDER	DESCRIPTION	M.	H/V
NO.	NO.	0.050			LOCATION	NO.	NO.	0.7411 7550/4 40 4051400	_	LOCATION
R650			ERJ2GEJ 105 X (1 M)	T	20.3/9.7	C155		S.TAN TEESVA 1C 105M8R	B	11.8/32.1
R651			ERJ2GEJ 103 X (10 k)	T	21.3/8.5	C156 C157		S.CER ECJ0EB1A104K	В	15.8/26
R652 R653			ERJ2GEJ 471 X (470)	T	21.7/5 20.3/6.7	C157		S.CER ECJ0EB1A104K S.CER ECJ0EC1H101J	В	13.9/29.2 15.7/29.2
R654			ERJ2GEJ 103 X (10 k) ERJ2GEJ 682 X (6.8 k)	+	20.3/6.7	C159		S.CER ECJ0EB1E102K	T	22.4/38.7
R700			ERJ2GEJ 102 X (1 k)	B	5.2/30.5	C160		S.CER ECJ0EB1E102K	ΙĖ	22.7/40
R701			ERJ2GEJ 101 X (100)	В	47.1/44.4	C203		S.CER ECJ0EB1C103K	В	38.6/35.3
R702			ERJ2GEJ 102 X (1 k)	T	3.7/39.7	C204		S.CER ECJ0EB1E102K	В	40.2/35.3
R703			ERJ2GEJ 272 X (2.7 k)	Ť	3.6/40.9	C205		S.CER ECJ0EC1H470J	В	44.7/34.4
R704			ERJ2GEJ-JPW	Ť	29.9/34.6	C206		S.CER ECJ0EB1A104K	Т	43.1/30.1
R706	7030007280		ERJ2GEJ 331 X (330)	В	21.6/46.8	C207	4030017680	S.CER ECJ0EC1H820J	T	40.1/30.9
						C208		S.CER ECJ0EB1A104K	T	36.7/33.6
						C209		S.CER ECJ0EB1A104K	T	30.4/32.5
C3			ECJ0EB1C103K	В	21.1/18.4	C210		S.CER ECJ0EB1E102K	T	29/33.7
C4			ECJ0EB1C103K	В	23.8/21.7	C211		S.CER ECJ0EC1H101J	T	44/30.1
C5			ECJ0EC1H070C	В	23.8/22.6	C212		S.CER ECJ0EB1A333K	T	41.3/30.4
C6			ECJ0EC1H100C	В	26.9/29.3	C213		S.CER ECJ0EB1C103K	T	43.5/24.9
C7			ECJ0EC1H070C	В	21.8/32.5	C214		S.TAN TEESVA OG 106M8R	T	42/26.1
C8			ECJ0EB1C103K	В	25.3/32.5	C215 C216		S.CER ECJ0EB1A104K S.CER ECJ0EB1A104K	B	38.1/26.4 43.4/23.2
C9 C10			ECJ0EB1C103K ECJ0EB1C103K	B	35.6/36.6 24.7/19.9	C217		S.CER ECJ0EB1E472K	+	38.3/30.4
C12			ECJ0EB1C103K		22.6/24.4	C218		S.CER ECJ0EB1E102K	†	38.5/27.7
C13			ECJ0EC1H390J	Ϊ́τ	24.5/27.8	C219		S.CER ECJ0EB1E102K	Ť	40.1/29.2
C14			ECJ0EC1H680J	B	28/27.3	C220		S.CER ECJ0EB1E102K	Ť	40.1/27.2
C15			ECJ0EB1C103K	ΙŢ	24.3/26.6	C221		S.CER ECJ0EB1E102K	T	38.6/24.5
C16			ECJ0EB1A104K	В	30.1/28.2	C222	4030017460	S.CER ECJ0EB1E102K	T	39.5/24.5
C17			ECJ0EB1A104K	В	35.6/35.7	C223	4030016930	S.CER ECJ0EB1A104K	T	40.4/24.5
C18			ECJ0EC1H470J	В	22.3/17.7	C224	4030016930	S.CER ECJ0EB1A104K	В	41.5/22.7
C19			ECJ0EC1H680J	В	22.8/16.5	C225		S.CER ECJ0EB1A104K	В	38.1/25.5
C24			ECJ0EB1E472K	В	23.5/33.4	C226		S.CER ECJ0EC1H470J	В	40.8/15.5
C25			ECJ0EB1E472K	В	36.5/42.6	C227		S.CER ECJ0EB0J474K	T	18/18.2
C26			ECJ0EB1E472K	В	26/17.4	C228		S.CER ECJ0EB1C103K	T	17.4/20.6
C29			ECJ0EB1E472K	В	25.9/22.2	C229		S.CER ECJ0EB1E102K	T	19.4/22.1
C30			ECJ0EC1H150J	В	23.9/18.7	C230		S.TAN TEESVP 0J 226M8R	T	19.4/12.4
C31			ECJ0EC1H390J	B	24.9/16.5	C231 C232		S.CER ECJ0EB1E102K S.CER ECJ0EB1C103K	T	19.3/26.3 19.3/24.5
C50			ECJ0EC1H680J	T	26.5/17.4	C232		S.CER ECJ0EB0J105K	T T	16/28.9
C51			ECJ0EC1H100C	T	27.5/18.3	C234		S.CER ECJ0EB03103K	'	19.4/23.3
C52 C54			ECJ0EB1E102K ECJ0EB1C103K	+	24/15.9 25.5/19.6	C235		S.CER ECJ0EB1E102K	'	15.6/15.7
C55			ECJ0EC1H101J	B	27/19.3	C236		S.CER ECJ0EB1A104K	В	39/12.5
C56			ECJ0EC1H040B	В	27.9/20.7	C237		S.CER ECJ0EB1A104K	В	38.8/11.3
C57			ECJ0EC1H180J	В	29.2/20.3	C238		S.CER ECJ0EB1A104K	В	38.4/16.8
C58			ECJ0EC1H040B	В	35.6/24.8	C239		S.CER ECJ0EB1A104K	T	29.9/36.4
C59			ECJ0EB1C103K	В	36.1/27.6	C240		S.CER ECJ0EB1A104K	T	31.1/37.5
C60			ECJ0EC1H680J	Т	26/16.2	C241	4030016930	S.CER ECJ0EB1A104K	В	38.3/18.6
C61	4030017620	S.CER	ECJ0EC1H100C	В	27.7/6.3	C242		S.CER ECJ0EB1E472K	В	37.2/15.2
C102	4030016790	S.CER	ECJ0EB1C103K	В	44.9/39	C243	4030017780	S.CER ECJ0EB1E472K	В	37.8/39.5
C104			ECJ0EB1E102K	В	47.2/39.9	C244		S.CER ECJ0EB1E472K	В	36.9/39.5
C105			ECJ0EC1H150J	В	49.6/33.7	C245		S.CER ECJ0EC1H270J	В	44.3/33.2
C106			ECJ0EB1E102K	В	35/42.2	C246		S.CER ECJ0EC1H050B	В	44.3/32.3
C108			ECJ0EC1H101J	T	47.8/43.1	C247		S.CER ECJ0EC1H270J	В	43.5/20.7
C109			ECJ0EB1H391K	T	49.6/43.1	C248		S.CER ECJ0EC1H020B S.CER ECJ0EB1H152K	В	43.1/21.8 5.2/46
C111			ECJ0EC1H820J	T	45.7/30.8	C250 C252		S.CER ECJOEBTH 152K	B	10.4/38.9
C112 C113			ECJ0EC1H101J ECJ0EB1C103K	+	47.8/30.4 49.3/27.6	C253		S.CER ECJ0EB1H152K	В	14.8/44.9
C113			TEESVA 0G 106M8R	+	47.8/26.8	C254		S.CER ECJ0EB1A104K	В	12.3/44.6
C115			ECJ0EB1A104K	В	50.9/26.8	C255			В	
C116			ECJ0EB1A104K	Ϊ́Τ	50.2/27.6	C256		S.CER ECJ0EB1A104K	В	14.4/35.7
C117			ECJ0EB1A333K	Ť	46.9/30.4	C257		S.CER ECJ0EB1A104K	В	10.2/44
C118			ECJ0EB1E102K	Ť	44.1/28.3	C258		S.CER ECJ0EC1H101J	В	10.4/40.7
C119			ECJ0EB1E102K	Т	45.7/29.2	C259	4030017460	S.CER ECJ0EB1E102K	T	15.5/14.8
C120	4030017460	S.CER	ECJ0EB1E102K	T	45.7/27.4	C260		S.CER ECJ0EB1E102K	T	15.5/13.9
C121	4030017730	S.CER	ECJ0EB1E471K	Т	44.6/25.3	C261		S.CER ECJ0EB0J105K	T	18.1/25.9
C122			ECJ0EB1E471K	T	45.5/25.3	C262		S.CER ECJ0EB0J105K	T	19.3/28.7
C123			ECJ0EB1A104K	T	48.2/23.4	C263		S.CER ECJ0EB1E102K	T	33.6/37.1
C124			ECJ0EB1A104K	B	47.6/21.7	C300		S.CER ECJ0EB1E102K	T	29.5/28.1
C125			ECJ0EB1A104K	В	50.9/27.7	C301	4550007020	S.CER ECJ0EB1E102K S.TAN TEESVP 0J 106M8R	T	29.5/27.2
C126			ECJ0EC1H101J	В	48.6/21.7	C302 C303		S.CER ECJ0EB1E102K	l t	30.2/25.1 32/24.5
C127			ECJ0EB0J474K ECJ0EB1C103K	B	28.4/38.1 26.6/36	C303		S.CER ECJOEB1E102K	l t	28.1/21.2
C128				B		C306		S.CER ECJ0EC1H1303	'	30.6/20.6
C129 C130	4550007000	S TAN	ECJ0EB1E102K TEESVA 1A 226M8R	B		C306		S.CER ECJ0EC1H270J	T T	33.1/23.3
C131			ECJ0EB1A104K	Ϊ́		C308	4030017340	S.CER ECJ0EC1H010B	†	31.8/17.1
C132			ECJ0EB1E102K	+	24.3/40	C309		S.CER ECJ0EC1H220J	†	26.5/21.1
C133			ECJ0EB1E102K	В		C350		S.CER ECJ0EB1E102K	В	32.1/28.2
C134			ECJ0EB1C103K	В	22.7/38.5	C351		S.CER ECJ0EB1E102K	T	34.9/27.4
C135			ECJ0EB0J105K	В	20.7/35.3	C352		S.CER ECJ0EB1E102K	T	34.9/24.3
C136			ECJ0EB1A104K	В	48.7/13.9	C353	4030017430	S.CER ECJ0EC1H101J	Т	34.5/19.6
C137			ECJ0EB1A104K	В	49.9/19.2	C355	4030017640	S.CER ECJ0EC1H150J	Т	31.6/19.5
C138	4030016790	S.CER	ECJ0EB1C103K	В	47.6/16.2	C356		S.CER ECJ0EC1H120J	Т	32.8/17.1
C139	4030017420	S.CER	ECJ0EC1H470J	В	49.9/32.5	C357		S.CER ECJ0EC1H180J	Т	33.7/16.3
C140	4030017380	S.CER	ECJ0EC1H050B	В	49.9/31.6	C358	4030017550	S.CER ECJ0EC1H1R5B	T	32.5/15.9
C141			ECJ0EC1H470J	В	50.9/25.6	C359		S.CER ECJ0EB1E102K	T	27.8/17.1
C142			ECJ0EC1H101J	В	26.5/31.9	C360		S.CER ECJ0EB1E102K	T	29.9/18.1
C143			ECJ0EB0J105K	В		C400		S.CER ECJ0EB0J224K	T	36.2/5.7
C144			ECJ0EB0J105K	T	24.3/36.8	C401		S.CER ECJ0EB1E102K	T	35.2/5.7
C150			ECJ0EB1E332K	B		C402		S.CER ECJ0EB0J224K	T	34.2/11.6
C151			ECJ0EB1H331K	В		C403 C404		S.CER ECJ0EB1E102K	T	33.3/11.6 30.3/11.6
C152			ECJ0EB1A393K	B	20.4/33.7	C404 C405		S.CER ECJ0EB1E102K S.CER ECJ0EB1C103K	В	34.6/7.9
C153 C154			ECJ0EB1H152K ECJ0EB1A104K	B	19.1/33.7 16.8/34.1	C405 C406		S.CER ECJ0EC1H470J	В	32.3/4.1
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C562 4030016800 S.CER												
C563 403001860 S.CER ECJOEBJ105K T 20.5/31.3 EP450 6910015370 S.BEA ACZ1005Y-102-T B 29.5/45.3 EP701 EP702 EP703 EP704 EP704 EP704 EP704 EP705 EP7	C562	4030016930	S.CER ECJ0EB1A104K	T	14.3/32.9	EP401	6910015370	S.BEA ACZ1005Y-102-T	T	32.4/11.6		
C601 4030017460 S.CER ECJ0EB1E102K B 7/43.4 EP702 6910014680 S.BEA MMZ1608Y 121BT B 26/46.5 C602 4030017460 S.CER ECJ0EB1E102K B 5.2/44.1 EP704 6910015370 S.BEA ACZ1005Y-102-T B 19.9/47.5 C604 4550007320 S.TAN F930J226MAABMA B 3.6/42.2 EP706 6910015370 S.BEA ACZ1005Y-102-T T 4.66/43.5 C606 4030017460 S.CER ECJ0EB1E102K T 5.7/4.8 EP750 6910015370 S.BEA ACZ1005Y-102-T T 4.66/43.5 C606 4030017460 S.CER ECJ0EB1E102K T 7.8/4.8 EP755 6910015370 S.BEA ACZ1005Y-102-T T 7.8/20.9 C608 4030017460 S.CER ECJ0EB1E102K T 4.8/4.8 EP755 6910015370 S.BEA ACZ1005Y-102-T T 7.8/21.8 C614 4030017460 S.CER ECJ0EB1E102K T		4030018860	S.CER ECJ0EB0J105K		20.5/31.3		6910015370	S.BEA ACZ1005Y-102-T				
C602 4030017460 S.CER ECJ0EB1E102K B 2.1/40.8 EP705 6910015370 S.BEA ACZ1005Y-102-T B 19.9/47.5 C603 4030017460 S.CER ECJ0EB1E102K T 5.7/4.8 EP705 6910015370 S.BEA ACZ1005Y-102-T T 146,6/43.5 C605 4030017460 S.CER ECJ0EB1E102K T 84.84 EP705 6910015370 S.BEA ACZ1005Y-102-T T 146,6/43.5 C606 4030017460 S.CER ECJ0EB1E102K T 84.84 EP705 6910015370 S.BEA ACZ1005Y-102-T T 17.78/20.9 C607 4030017460 S.CER ECJ0EB1E102K B 7.6/4.2 EP706 6910015370 S.BEA ACZ1005Y-102-T T 7.8/20.9 C608 4030017460 S.CER ECJ0EB1E102K B 7.6/4.2 EP706 6910015370 S.BEA ACZ1005Y-102-T T 7.8/20.9 C609 4550007320 S.TAN F930J226MAABMA T 2.4/6.6 EP705 6910015370 S.BEA ACZ1005Y-102-T T 7.8/21.8 C614 4030017440 S.CER ECJ0EB1E102K T 19.7/8.5 EP756 6910015370 S.BEA ACZ1005Y-102-T T 13.3/16.3 C652 4030017460 S.CER ECJ0EB1E102K T 19.7/8.5 EP756 6910015370 S.BEA ACZ1005Y-102-T T 13.3/17.5 C653 4030017460 S.CER ECJ0EB1E102K T 19.7/8.5 EP756 6910015370 S.BEA ACZ1005Y-102-T T 13.3/20.3 C654 4550007320 S.TAN F930J226MAABMA T 23.1/11.7 T 26.6/12 C700 4030017460 S.CER ECJ0EB1E102K T 20.3/7.6 EP756 6910015370 S.BEA ACZ1005Y-102-T T 13.3/25.7 C653 4030017460 S.CER ECJ0EB1E102K T 20.3/7.6 EP756 6910015370 S.BEA ACZ1005Y-102-T T 13.3/25.7 C654 4030017460 S.CER ECJ0EB1E102K T 20.3/7.6 EP756 6910015370 S.BEA ACZ1005Y-102-T T 13.3/25.7 C655 4030017460 S.CER ECJ0EB1E102K T 20.3/7.6 EP756 6910015370 S.BEA ACZ1005Y-102-T T 13.3/25.7 C704 4030017460 S.CER ECJ0EB1E102K T 4.6/38 C704 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C705 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C706 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C707 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C708 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C709 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C709 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C709 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C700 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6			S.UER ECJUEB1E102K									
C603 4030017460 S.CER ECJ0EB1E102K B 2.1/40.8 EP705 6910015370 S.BEA ACZ1005Y-102-T T 46.6/43.5 C605 4030017460 S.CER ECJ0EB1E102K T 5.7/4.8 EP707 6910015370 S.BEA ACZ1005Y-102-T T 46.6/43.5 C606 4030017460 S.CER ECJ0EB1E102K T 8/4.8 EP750 6910015370 S.BEA ACZ1005Y-102-T T 46.6/43.5 C607 4030017460 S.CER ECJ0EB1E102K T 4.8/4.8 EP750 6910015370 S.BEA ACZ1005Y-102-T T 7.8/2.0 C608 4030017460 S.CER ECJ0EB1E102K B 7.8/4.2 EP752 6910015370 S.BEA ACZ1005Y-102-T T 7.8/21.8 C609 4550007320 S.TAN P930J226MAABMA T 2.4/6.6 EP755 6910015370 S.BEA ACZ1005Y-102-T T 13.3/16.3 C652 4030017460 S.CER ECJ0EB1E102K T												
C604 4550007320 S.TAN F930J226MAABMA B 3.6/42.2 5.7/4.8 EP706 6910015370 S.BEA ACZ1005Y-102-T T 46.6/43.5 5.7/4.8 EP707 6910015370 S.BEA ACZ1005Y-102-T T 46.6/43.5 5.7/4.8 EP708 6910015370 S.BEA ACZ1005Y-102-T T T 4.6/43.5 5.7/4.8 EP708 6910015370 S.BEA ACZ1005Y-102-T T T 4.6/43.5 5.7/4.8 EP750 6910015370 S.BEA ACZ1005Y-102-T T T 7.8/20.9 6910015370 S.BEA ACZ1005Y-102-T T 7.8/20.9 7.8/20.9 7.8/20.9 </td <td></td> <td>4030017460</td> <td></td> <td></td> <td></td> <td></td> <td>6910015370</td> <td>S.BEA ACZ1005Y-102-T</td> <td></td> <td></td>		4030017460					6910015370	S.BEA ACZ1005Y-102-T				
C606 4030017460 S.CER ECJ0EB1E102K T 8/4.8 EP750 6910015370 S.BEA ACZ1005Y-102-T T 7.8/20.8 EP750 6910015370 S.BEA ACZ1005Y-102-T T 7.8/21.8 EP750 6910015370 S.BEA ACZ1005Y-102-T T 13.3/16.3 EP750 6910015370 S.BEA ACZ1005Y-102-T T 13.3/20.3 EP750 6910015370 S.BEA ACZ1005Y-102-T T 13.3/20.3 EP750 EP750 6910015370 S.BEA ACZ1005Y-102-T T 13.3/20.3 EP750 EP	C604	4550007320	S.TAN F930J226MAABMA		3.6/42.2	EP706	6910015370	S.BEA ACZ1005Y-102-T		46.6/43.5		
C607		4030017460					6910014680	S.BEA MMZ1608Y 121BT				
C608 4030017460 S.CER ECJ0EB1E102K B 7.6/4.2 FP752 6910015370 S.BEA ACZ1005Y-102-T T 7.8/21.8 C609 4550007320 S.TAN F930J226MAABMA T 2.4/6.6 EP755 6910015370 S.BEA ACZ1005Y-102-T T 13.3/16.7 C650 4030017460 S.CER ECJ0EB1E102K T 18.2/6.1 EP756 6910015370 S.BEA ACZ1005Y-102-T T 13.3/16.7 C651 4030017460 S.CER ECJ0EB1E102K T 19.1/9.4 EP756 6910015370 S.BEA ACZ1005Y-102-T T 1 13.3/18.7 C651 4030017460 S.CER ECJ0EB1E102K T 19.7/8.5 EP759 6910015370 S.BEA ACZ1005Y-102-T T 1 13.3/18.7 C653 4030017460 S.CER ECJ0EB1E102K T 20.3/7.6 EP759 6910015370 S.BEA ACZ1005Y-102-T T 1 13.3/28.7 C654 4550007320 S.TAN F930J226MAABMA <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
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C651 4030017460 S.CER ECJ0EB1E102K T 19.1/9.4 EP758 6910015370 S.BEA ACZ1005Y-102-T T 13.3/20.3 13.3/25.7 C653 4030017460 S.CER ECJ0EB1E102K T 20.3/7.6 EP759 6910015370 S.BEA ACZ1005Y-102-T T 13.3/25.7 C654 4550007320 S.TAN F930J226MAABMA T 23.1/11.7 C655 4030017460 S.CER ECJ0EC1H221J T 26.6/12 C700 4030017460 S.CER ECJ0EB1E102K T 4.6/38 C701 4030017460 S.CER ECJ0EB1E102K T 4.6/39.7 C702 4030017460 S.CER ECJ0EB1E102K T 8.2/8.7 C704 4030017460 S.CER ECJ0EB1E102K B 3.4/13.1 C703 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C706 4030017460 S.CER ECJ0EB1E102K B 3.4/30.5 C706 4030017460 S.CER ECJ0EB1E102K B 4.3/30.5 C707 4030017420 S.CER ECJ0EB1E102K B 4.3/30.5 C707 4030017420 S.CER ECJ0EC1H470J B 27.7/45.7 EP760 6910015370 S.BEA ACZ1005Y-102-T T 13.3/20.3 T 13.3/28 EP759 6910015370 S.BEA ACZ1005Y-102-T T 13.3/28 EP759 C910015370 S.BEA ACZ1005Y-102-T T T T T T T T T T		4030017440					6910015370	S.BEA ACZ1005Y-102-T				
C652							6910015370	S.BEA ACZ1005Y-102-I				
C653												
C654 4550007320 S.TAN F930J226MAABMA T 23.1/11.7 C655 4030017440 S.CER ECJ0EB1E102K T 26.6/12 C701 4030017460 S.CER ECJ0EB1E102K T 4.6/38 C702 4030017460 S.CER ECJ0EB1E102K T 4.6/39.7 C703 4030017460 S.CER ECJ0EB1E102K T 8.2/8.7 C704 4030017460 S.CER ECJ0EB1E102K B 3.4/13.1 C705 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C706 4030017460 S.CER ECJ0EB1E102K B 4.3/30.5 C707 4030017420 S.CER ECJ0EB1E102K B 4.3/30.5 C707 4030017420 S.CER ECJ0EC1H470J B 27.7/45.7												
C655	C654	4550007320	S.TAN F930J226MAABMA	T	23.1/11.7	"						
C701 4030017460 S.CER ECJ0EB1E102K T 4.6/39.7 C702 4030017460 S.CER ECJ0EB1E102K B 8.1/11.7 C703 4030017460 S.CER ECJ0EB1E102K T 8.2/8.7 C704 4030017460 S.CER ECJ0EB1E102K B 3.4/13.1 C705 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C706 4030017460 S.CER ECJ0EB1E102K B 4.3/30.5 C707 4030017420 S.CER ECJ0EC1H470J B 27.7/45.7	C655	4030017440	S.CER ECJ0EC1H221J		26.6/12							
C702 4030017460 S.CER ECJ0EB1E102K B 8.1/11.7 C703 4030017460 S.CER ECJ0EB1E102K T 8.2/8.7 C704 4030017460 S.CER ECJ0EB1E102K B 3.4/13.1 C705 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C706 4030017460 S.CER ECJ0EB1E102K B 4.3/30.5 C707 4030017420 S.CER ECJ0EC1H470J B 27.7/45.7												
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C704 4030017460 S.CER ECJ0EB1E102K B 3.4/13.1 C705 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C706 4030017460 S.CER ECJ0EB1E102K B 4.3/30.5 C707 4030017420 S.CER ECJ0EC1H470J B 27.7/45.7												
C705 4030017460 S.CER ECJ0EB1E102K B 3.4/29.6 C706 4030017460 S.CER ECJ0EB1E102K B 4.3/30.5 C707 4030017420 S.CER ECJ0EC1H470J B 27.7/45.7	C704			В								
C707 4030017420 S.CER ECJ0EC1H470J B 27.7/45.7	C705	4030017460	S.CER ECJ0EB1E102K		3.4/29.6							
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)	C/07	4030017420	S.CER ECJ0EC1H470J	B	27.7/45.7	<u> </u>			\perp			

[RF UNIT]

[RF U	NIT]				
REF NO.	ORDER NO.		DESCRIPTION	M.	H/V LOCATION
IC100 IC150 IC800 IC900 IC950 IC951 IC952 IC953 IC954 IC955	1110005590 1110004050 1130013000 1110005230 1110006360 1130011760 1130013240 1130013240 1130013240 1130013240	S.IC S.IC S.IC S.IC S.IC S.IC S.IC S.IC	μPC2762TB-E3 NJM3404AV-TE1 LMX2313USLDX/NOPB μPC2757TB-E3 M62366GP D60J CD4094BPWR TC75S51FU (TE85L) TC75S51FU (TE85L) TC75S51FU (TE85L) TC75S51FU (TE85L)	T T B T B T T T T	34/14.3 43.8/34.7 20.6/21.9 14.9/9.6 15.9/30.3 6.8/8.9 9.6/31.3 22/32.3 21.9/29.3 9.2/27.2
Q1 Q2 Q3 Q4 Q1001 Q1012 Q104 Q105 Q151 Q200 Q251 Q250 Q251 Q3001 Q301 Q302 Q301 Q302 Q303 Q400 Q401 Q450 Q451 Q451 Q450 Q450 Q450 Q450 Q450 Q450 Q450 Q450	1590003280 1590003201 1590003390 1590003390 15600011241 1530002920 1590003390 1590001390 1590001390 1590003250 1590003250 1530003260 1530003260 1590003250 1530003260 1590003250 1590003250 1590003250 1590003250 1590003250 1590003250 1590003250 1590003250 1590003250 1590003260 1590003260 1590003260 1590003260 1590003280 1530003260 1590003280 1530003260 1530003260 1580000790 1580000790 1580000790 1580000790 1580000790 1580000790 1580000790	S.TR S.TR S.TR S.TR S.TR S.TR S.TR S.TR	UNR9211J-(TX) XP1114 (TX) UNR9215J-(TX) UNR9215J-(TX) 2SK3476 (TE12L) RD01MUS1-T113 2SC4226-T1 R25 UNR9215J-(TX) XP4315 (TX) XP6401-(TX) UNR9215J-(TX) UNR9215J-(TX) 2SC4215-O (TE85R) UNR9115J-(TX) 2SC5006-T1 XP1115 (TX) 2SC5006-T1 UNR9115J-(TX) SK318YB-TL-E	втттттттвввтвтттттвввввнтвввв	30.8/46 30.4/46.8 33/45.4 33/47.5 39/27.7 46.6/21.7 42/18 36/17.7 39.4/14.4 36/36 45.9/34.6 12.5/36.1 10.4/26.6 4.1/5.7 10.4/37 2/10.8 24.1/39.1 18.9/39.9 17.2/32.2 22.2/31.5 25.6/8.3 24.6/5.4 30.3/18.8 30.3/18.8 29.1/33.6 22.7/17.5 30.6/17.9 27.5/5.5
Q701 Q702 Q703 Q704 Q800 Q801 Q802 Q803 Q804 Q850 Q900 Q1000	1530003781 1530003260 1590002380 1590003250 1590003250 1590002380 1590002250 1560000541 1520000460 1540000660 1530003260 1590003250 1590003720		[USA], [USA-1], [EXP-2] 2SC5624VH-TL-E Except [USA], [USA-1], [EXP-2] 2SC5006-T1 XP1115 (TX) UNR9115J-(TX) UNR9215J-(TX) XP1115 (TX) UNR9115J-(TX) 2SK880-Y (T5RICOM) 2SB1132 T100 R 2SD2216J-S 2SC5006-T1 UNR9115J-(TX) HAT1026R-EL-E	B	3.4/26.5 3.4/26.5 10.3/13.8 6.6/10.9 9.2/10.2 7.1/8.5 35.2/8.9 37.6/16.7 21.8/17.7 40.2/13.5 43.3/17.2 13/9.1 18.4/7.7 34.2/8.8
D1 D2 D6 D8 D9 D11 D100 D101 D150 D201 D202 D203 D250 D251 D252 D253 D255 D255 D256 D300 D301 D302 D303 D305 D306 D307 D308	1750000581 1750000581 1750001621 1790001621 1790001621 1790001621 1790001621 1790001240 1790001240 1790001240 1790001240 1790001260 1790001260 1750001270 1790001260 1750001270 1790001621 1790001621 1790001621 1790001621 1790001620 1750001270 1790001621 1790001621 1790001260 1750001260 17500001260 17500001260 1750000721 1750000721	S.DIO S.DIO S.DIO S.DIO S.DIO S.DIO S.DIO S.DIO S.DIO	1SV307 (TPH3) 1SV307 (TPH3) 1SV308 (TPL3) MA132WK (TX) MA2S728-(TX) MA2S728-(TX) MA2S077-(TX) MA2S077-(TX) MA2S077-(TX) MA2S077-(TX) 1SV308 (TPL3) MA2S077-(TX) 1SV325 (TPH3) MA2S077-(TX) 1SV308 (TPL3) MA2S077-(TX) 1SV308 (TPL3) MA2S077-(TX) 1SV308 (TPL3) MA2S077-(TX) 1SV308 (TPL3) MA2S077-(TX) HVC375BTRF-E MA2S077-(TX) HVC375BTRF-E HVC375BTRF-E	TTBTBBTBBTBBBBBBBBBTTTTTTT	26.3/40.4 29.2/40.8 22.3/40.7 26.9/45.3 25.8/47.3 30.5/14.1 48.1/23.6 37.6/34.1 42.1/31.4 18.9/45.1 10.4/42.5 10.8/30.7 12/30.7 9/23 12.4/19.5 11.4/21.3 11.4/17.9 19.9/40.7 20.3/36.8 27.4/38.3 21.1/35.6 44.9/36.5 13.1/36.4 4.4/38.3 3.6/37.1 3.8/33.9

[RF UNIT]

REF	ORDER			H/V
NO.	NO.	DESCRIPTION	М.	LOCATION
D309 D310	1790001260 1790001240	S.DIO MA2S077-(TX) S.DIO MA2S728-(TX)	T	3.2/31.6 4.1/26.3
D311	1790001621	S.DIO 1SV308 (TPL3)	T	2.7/24.5
D400 D401	1790001621 1750000771	S.DIO 1SV308 (TPL3) S.VCP HVC376BTRF-E	B B	21.4/44.9 17.4/36
D402	1750000771	S.VCP HVC376BTRF-E	В	16.9/27.1
D403	1750000771	S.VCP HVC376BTRF-E	В	15.6/23.4
D404 D405	1790001250 1790001621	S.DIO MA2S111-(TX) S.DIO 1SV308 (TPL3)	B B	15.1/27.3 17.3/20.8
D450	1750001021	S.VCP HVC376BTRF-E	В	22.8/34.1
D451	1750000771	S.VCP HVC376BTRF-E	В	21.9/25.5
D452 D453	1750000771 1790001250	S.VCP HVC376BTRF-E S.DIO MA2S111-(TX)	B B	20.7/24.4 19.7/29.8
D454	1790001621	S.DIO 1SV308 (TPL3)	В	26.6/14.6
D500	1790001621 1790001260	S.DIO 1SV308 (TPL3) S.DIO MA2S077-(TX)	T	32.2/37 30.1/36.3
D501 D502	1750001200	S.DIO MA2S077-(TX) S.VCP HVC375BTRF-E	†	29.7/33.6
D503	1790001250	S.DIO MA2S111-(TX)	Т	32.5/17.3
D504 D505	1790001260 1750000721	S.DIO MA2S077-(TX) S.VCP HVC375BTRF-E	T	30.1/25.1 27.9/26.2
D505	1750000721	S.VCP HVC375BTRF-E	†	30.1/23.9
D507	1790001260	S.DIO MA2S077-(TX)	T	28.9/21.4
D508 D509	1790001621 1790001621	S.DIO 1SV308 (TPL3) S.DIO 1SV308 (TPL3)	T B	30.5/15.3 14.6/12.1
D600	1790001621	S.DIO 13V308 (TPL3)	В	28.8/38.6
D601	1750000771	S.VCP HVC376BTRF-E	В	24.9/25.1
D602 D603	1750000771 1790001250	S.VCP HVC376BTRF-E S.DIO MA2S111-(TX)	B B	23.8/22.3 25.2/13.6
D604	1750001230	S.VCP HVC376BTRF-E	В	20/13.9
D605	1750000771	S.VCP HVC376BTRF-E	В	18.2/13.5
D606 D650	1790001621 1750000771	S.DIO 1SV308 (TPL3) S.VCP HVC376BTRF-E	B B	14.9/14.9 29.3/23.8
D651	1750000771	S.VCP HVC376BTRF-E	В	28.6/21.7
D652	1790001250	S.DIO MA2S111-(TX)	B B	34.1/16.9
D653 D654	1750000771 1750000771	S.VCP HVC376BTRF-E S.VCP HVC376BTRF-E	В	32.5/12 30.4/11.5
D655	1790001621	S.DIO 1SV308 (TPL3)	В	27.4/12.1
D700	1790001621	S.DIO 1SV308 (TPL3)	В	3.6/35.8
D702 D703	1750000721 1750000721	S.VCP HVC375BTRF-E S.VCP HVC375BTRF-E	B B	3.2/28.9 7.6/21
D704	1750000721	S.VCP HVC375BTRF-E	В	8.4/18.1
D705	1790001250	S.DIO MA2S111-(TX) S.DIO 1SV308 (TPL3)	B B	6.2/24.8
D706 D707	1790001621 1790001621	S.DIO 1SV308 (TPL3) S.DIO 1SV308 (TPL3)	В	13/13.6 13.1/15.2
D800	1790001240	S.DIO MA2S728-(TX)	В	45/17.1
D801 D850	1790001250 1790001621	S.DIO MA2S111-(TX) S.DIO 1SV308 (TPL3)	B T	40.9/16.7 15.6/10.6
D851	1790001021	S.DIO 1SV308 (TPL3) S.DIO MA2S111-(TX)	†	12.4/12.4
D1000	1790001240	S.DIO MA2S728-(TX)	В	38.1/9.3
D1001	1750000540	S.DIO RB060L-40 TE-25	Т	40.1/8.7
L1	6200008530	S.COL 0.30-1.0-4TR 12N	Т	10.4/42.3
L2	6200008700	S.COL 0.30-0.9-6TR 17.5N	Т	12.7/41.7
L3 L4	6200008700	S.COL 0.30-0.9-6TR 17.5N S.COL 0.30-1.7-7TL 50N	T	15.5/42.3
L5	6200008280 6200008170	S.COL 0.30-1.7-7TL 50N S.COL 0.35-1.6-8TL 54N	T T	25.6/42.9 18.7/43.4
L6	6200009750	S.COL 0.30-2.0-7TL 68N	Т	19.6/47.1
L7 L8	6200008260 6200007921	S.COL 0.30-1.7-8TL 60N S.COL ELJRF 15NJFB	T B	22.8/46.5 3.2/40.3
L9	6200007321	S.COL ELJRF 15NJFB	В	3.2/39.4
L10	6200004480	S.COL MLF1608D R82K-T S.COL MLF1608D R82K-T	В	25.9/41.1
L11 L12	6200004480 6200004480	S.COL MLF1608D R82K-T S.COL MLF1608D R82K-T	B T	32/42.6 30.7/40.5
L13	6200009070	S.COL LQW18AN18NG00D	В	23.5/39.4
L14 L15	6200004480 6200010910	S.COL MLF1608D R82K-T S.COL LQW18AN56NG00D	T B	26.4/46.5 24.2/46
L16	6200010910	S.COL LQW18AN12NG00D	В	25.4/38.7
L100	6200008340	S.COL 0.26-1.1-5TR 19.5N	T	34.1/36.9
L101 L102	6200010240 6200008430	S.COL 0.40-0.8-2TL S.COL 0.20-1.0-4TL 15N	T	33.6/33.7 30.5/44.5
L103	6200008430	S.COL 0.20-1.0-4TL 15N	Ť	35.2/39.4
L104	6200010260	S.COL 0.40-1.5-5TL 24N	T	36.1/22.6
L105 L106	6200006771 6200005601	S.COL ELJRE 1N5ZFA S.COL ELJRE 3N3ZFA [USA], [USA-1]	T	42.6/23.9 46/24.8
	6200005611	S.COL ELJRE 3N9ZFA		
L107	6200007810	Except [USA], [USA-1] S.COL LQH31HN95NK03L	T	46/24.8 41/22.1
L109	6200009250	S.COL LQW18ANR22G00D Except [USA], [USA-1]	Т	44.4/18
	6200011860	S.COL LQW18ANR47G00D [USA], [USA-1]	Т	44.4/18
L110	6200007871	S.COL ELJRF 39NJFB	T	36.3/14.2
L111 L112	6200007911 6200007871	S.COL ELJRF 18NJFB S.COL ELJRF 39NJFB	T	38.3/16.4 47.2/17.7
L113	6200007911	S.COL ELJRF 18NJFB		
L200	6200006981	[USA], [USA-1] only S.COL ELJRE R10GFA	T B	48.2/18.1 15.8/43.1
L201	6200009571	S.COL ELJRE R12GFA	В	13.2/43.1
L202 L203	6200005140 6200005140	S.COL MLF1608D R33K-T S.COL MLF1608D R33K-T	B B	11.4/40.7 12.3/38.8
		Mounted on the Top side. B: Mounted on t		

[RE LINIT] [RE LINIT]

2000000640 S.COL APPEND PRINCT B 0.00021 APPEND S.COL APPEND PRINCT B 0.00021 APPEND APPEND PRINCT B 0.00021 APPEND APPEND PRINCT B 0.00021 APPEND PRINCT B 0.00022 APPEND P	[RF U	NIT]				[RF UNIT]					
2009 1900		1	DESCRIPTION	N	Λ.				DESCRIPTION	M.	H/V LOCATION
250 B00004400 SCOL ML F1980 F1980 F1980 F1	L204	6200002041	S.COL NLV25T-101J	Е	В	11.6/33.1	R153	7030005110	S.RES ERJ2GEJ 224 X (220 k)	В	44.5/33.9
2229 200000580 S.COL MI-FIGORA 1961-7 B 10.124 B 10.224	L250										49.1/35.1
2000004400 SCOL ME Finding Prink CT											
226 GROOGO-MAD SCOL ELPH SOUTH 1											
2000											
2001	L300										35.8/33.8
20000007971 SCOL ELLIFE FISHER T 26,455.5 Files Fi	L301			7	т		R160			В	47.7/35.8
3000007671 S.COL ELIFE FORLIFS T 18/36/8 F1489 7300007771 S.COL ELIFE FORLIFS T 18/36/8 F1489 7300007771 S.COL ELIFE SOURCE T 18/36/8 F1489 F1	L302										41.7/20.1
2.000000000000000000000000000000000000	L303										
2000000000000000000000000000000000000											
2000007977 S.COL ELIPRE POWER T 6,897.7 8,100 1,90000910 S.COL ELIPRE POWER T 4,202.8 8,100 1,90000910 S.COL ELIPRE POWER T 2,627.5 1,90000910											
2000007971 SCOL ELIPRE PRICAGE T	L307										20.9/6.6
200011691 S.O.D. ELJRF RIOJFB T 2,027.5 HT 700000740 S.RES ENJOSE STA X (15 N H 1	L308			-	т					В	34.1/36
400 600001190 S.O.D. ELJPE FROJE B 217/084 F.	L309									В	44.9/36.7
2000000796 S.O.D. L.OWISANREZGOODD B 17.938.1 R200 7000007200 S.RES ERIZGEL 272 X (2 ½ k) B 10.936.2 R201							R170	7030007340		_	40.0/00.4
400 100							Pagg	7020007200			
1.600011670 S.COL LOWINAMERICAGOD B 17.803.0 R.202 7000005605 S.RES ERIJGEL 103 X (10 k) B 16.807.											
1500011690 S.COL	L403										10.8/36.7
450 6000011670 S.COL	L404										14.5/37.1
150 150	L405	6200011660	S.COL LQW18ANR15G00D			21.1/43.1	R204	7030007300		В	18.4/46.6
2000011650 S.COL LUNYSANBSINGOD B 19.5/24.4 R251 700000540 S.RES REAGEL 172 X (47 K) B 75.5/25.	L450										29.6/40.9
500 6200007961 S.COL ELJRF (6.8) T 30.1/34.6 R252 7050005204 S.RES FLAGEL 173 X (17 k) B 927.8 5050 6200007341 S.COL ELJRF (10.1) T 30.1/28.6 R254 7050005205 S.RES FLAGEL 103 X (10 k) B 927.8 5050 620007341 S.COL ELJRF (10.1) T 30.1/28.6 R254 7050005205 S.RES FLAGEL 103 X (10 k) B 927.8 5050 620007381 S.COL ELJRF (10.1) T 24.87.2 R254 7050005205 S.RES FLAGEL 103 X (10 k) B 927.8 R254 7050005205 S.RES FLAGEL 103 X (10 k) B 927.8 R254 7050005205 S.RES FLAGEL 103 X (10 k) B 927.8 R254 R											
5000097821 S.COL ELJRF 19NJFB T 28,294.5 7250005220 SRES ERJSGEJ 223 X (22 k) B 9278.2											
5.90 5.90											
	L503										11.5/29.1
0.00007281 S.COL ELIJF 33NJFB	L504	6200007961				30.4/22.7	R256	7030005050	S.RES ERJ2GEJ 103 X (10 k)	В	12.4/17.5
.507 (200007221 S.COL) ELIJR 15NJFB T 31.794.4 R300 700007290 S.RES ERJ2GEJ 22X (2 k) T 28.96 28.000 (20001850 S.COL) LOWIBANESH(900D B 27.294.1 R302 700007290 S.RES ERJ2GEJ 22X (2 k) T 28.96 28.000 (20001850 S.COL) LOWIBANESH(900D B 27.294.1 R302 700007290 S.RES ERJ2GEJ 22X (2 k) T 28.96 28.000 (2000000 S.COL) LOWIBANESH(900D B 28.425.3 R300 700007290 S.RES ERJ2GEJ 22X (2 k) T 28.96 28.000 (20000000 S.COL) LOWIBANESH(900D B 28.425.3 R300 7000000000 S.RES ERJ2GEJ 22X (2 k) T 28.96 28.000 (200000000 S.COL) LOWIBANESH(900D B 20.15.1 R307 70000000000 S.RES ERJ2GEJ 10X (1 k) T 19.238 C.COL	L505										13.1/22.4
Beomotists S.COL LOWISAN/ENGODD B 31.8/34.7 R301 7030007290 S.RES ERIZGE 222 X (2.2 k) T 26.36 E00009280 S.COL LOWISAN/ENGODD B 29.4/29.3 R302 7030007290 S.RES ERIZGE 222 X (2.2 k) T 24.468. S.COL COWISAN/ENGODD B 29.4/29.3 R302 7030007290 S.RES ERIZGE 222 X (2.2 k) T 24.468. S.COL COWISAN/ENGODD B 26.8/26 R304 703000590 S.RES ERIZGE 222 X (2.2 k) T 24.468. S.COL COWISAN/ENGODD B 20.7/16.3 R308	L506										
Beach Beac											
Begonogeneral Begonogenera											
Beach Beac											
	L603										8.5/38.9
6.000 6.00000 6.00000 6.00000 6.00000 6.000000 6.000000 6.000000 6.000000 6.000000 6.000000 6.0000000 6.0000000 6.0000000 6.0000000 6.0000000 6.00000000 6.00000000 6.00000000 6.00000000 6.000000000 6.000000000 6.000000000 6.000000000 6.000000000 6.0000000000	L604										15.2/38.5
	L605										9.2/35.5
	L606										10.8/35.5
6.000											
Box											
Beach											
Beach Beac	L611										3.6/34.9
Beautified Bea	L650			E	в					Т	1.5/34.2
.855 6200010850 S.COL LOW18ANEZNGOOD B 33.3/13.8 B 33.3/13.8 B 6700007270 S.RES ERL/2GEJ 151 X (150) T 1.2/30.7 .700 620000801 S.COL ELJRF 2NTDFB (2.7) B 5.1/20.8 B 21/20.8 B 7000007300 S.RES ERL/2GEJ 222 X (2.2 k) T 2.1/26.5 .701 620000801 S.COL ELJRF 2NTDFB (2.7) B 5.1/25.3 B 7000007300 S.RES ERL/2GEJ 332 X (3.3 k) B 2.5/42. .702 620000801 S.COL ELJRF 2NTDFB (2.7) B 5.6/21.6 B 7000007300 S.RES ERL/2GEJ 332 X (3.3 k) B 2.5/42. .703 620000801 S.COL ELJRF 2NTDFB (2.7) B 5.6/21.6 B 7000007300 S.RES ERL/2GEJ 1683 X (66 k) T 2.4/38. .704 6200007941 S.COL ELJRF 10NJFB B 10.3/12.2 B 8.7/1.1 .801 6200007941 S.COL ELJRF 10NJFB B 10.3/12.2 B 8.2/40 .801 6200007941 S.COL ELJRF 10NJFB T 14.3/9.9 .802 6200007941 S.COL ELJRF 10NJFB T 14.3/9.9 .803 6200007941 S.COL ELJRF 10NJFB T 14.3/9.9 .804 6200007941 S.COL ELJRF 10NJFB T 14.3/9.9 .805 6200007941 S.COL ELJRF 10NJFB T 14.3/9.9 .806 6200007941 S.COL ELJRF 10NJFB T 14.3/9.9 .807 6200011031 S.COL ELJRF 10NJFB T 14.3/9.9 .808 6200007941 S.COL ELJRF 10NJFB T 14.3/9.9 .809 620001031 S.COL ELJRF 10NJFB T 14.3/9.9 .800 620001031 S.COL ELJRF 10NJFB T 14.3/9.9 .801 620000351 S.COL ELJRF 10NJFB T 14.3/9.9 .801 620000351 S.COL ELJRF 10NJFB T 14.3/9.9 .802 802 802 802 802 802 .803 802 802 802 802 802 .804 802 802 802 802 .804 802 802 802 802 .805 802 802 802 802 802 .807 802 802 802 802 802 .808 802 802 802 802 802 .809 802 802 802 802 802 .800 802 802 802 802 802 .800 802 802 802 802 .800 802 802 802 802 .800 802 802 802 802 .800 802 802 802 802 .800 802 802 802 802 .800 802 802 802 .800 802 802 802 .800 802 802 8	L651										
1.00 1.00									` '		
2000008011 S.COL ELJEF 2N7DFB (2.7) B 5.6/21.6 R320 7300005240 S.RES ERL/2GEJ 473 X (47 k) T 28.6/38.											
200007941 S.COL ELJRF 10NJFB B 10.3/12.2 R322 7030005720 S.RES ERJ2GEJ 563 X (56 k) T 4.4/29.2 R328 7030005720 S.RES ERJ2GEJ 103 X (10 k) B 8.2/40 R328 R329 R329 R328 R329 R	L702										28.6/38.4
800	L703					8.7/17.1					12.4/38.8
285	L704										
1851 6200007981 S.COL ELJRF 4N7DFB (4.7) T 14.377.4 R400 R400011031 S.COL ELJRF 10JFB T 21.942 R400 R400011031 S.COL ELJRF 10JFB T 21.942 R400 R400011031 S.COL ELJRF 10JFB T 21.942 R400 R400010301 S.RES ERJ2GEJ 138 X (10 k) B 19.743. R401 R400010300300 S.RES ERJ2GEJ 138 X (180 k) B 19.743. R401 R400010300300 S.RES ERJ2GEJ 138 X (180 k) B 19.743. R401 R400010300300 S.RES ERJ2GEJ 138 X (180 k) B 19.743. R401 R4000003000 S.RES ERJ2GEJ 138 X (17 k) B 19.743. R401 R4000003000 S.RES ERJ2GEJ 138 X (17 k) B 19.743. R401 R400003000300 S.RES ERJ2GEJ 138 X (17 k) B 19.743. R401											
1900 6200011031 S.COL ELJRE R10JFB T 21.914 R400 7030007300 S.RES ERJ2GEJ 332 X (3.3 k) B 19.7144 R400											
SOLD											
R402 7030009280 S.RES ERJ2GEJ 391 X (390) B 28.4/45.6 R404 703000510 S.RES ERJ2GEJ 473 X (47 k) B 19.7/37. R2 7030009280 S.RES ERJ2GEJ 391 X (390) B 29.3/45.6 R404 7030005110 S.RES ERJ2GEJ 224 X (220 k) B 19.9/37. R3 7030004980 S.RES ERJ2GEJ 101 X (100) T 31.4/42.2 R406 7030005120 S.RES ERJ2GEJ 221 X (220) B 15.5/43. R406 7030005120 S.RES ERJ2GEJ 102 X (1 k) B 17.7/37 R406 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 30.9/42.6 R407 7030005120 S.RES ERJ2GEJ 102 X (1 k) B 17.7/37 R406 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 26.5/47.5 R408 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 26.5/47.5 R408 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 26.5/47.5 R408 7030005120 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R410 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R410 R409 R409 R409 S.RES ERJ2GEJ 221 X (220) B 12.1/36.7 R410 R409 R409 R409 R409 R409 R409 R409 R40	L901				- 1						19.7/42.2
R1											20.8/38.4
17,7030009280 S.RES ERJZGEJ 391 X (390) B 29,3/45.6 R405 7030004990 S.RES ERJZGEJ 102 X (1 k) B 17,7/37 17,00005120 S.RES ERJZGEJ 102 X (1 k) B 18,5/41. 18,441.								7030005240	S.RES ERJ2GEJ 473 X (47 k)		19.7/43.1
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10 10 10 10 10 10 10 10											
7030004980 S.RES ERJ2GEJ 101 X (100) T 26.5/47.5 R408 703000530 S.RES ERJ2GEJ 100 X (10) B 21.6/58.8 R7030005120 S.RES ERJ2GEJ 102 X (1 k) B 34.3/41.2 R410 7030004990 S.RES ERJ2GEJ 221 X (220) B 22.6/58.8 R7030007290 S.RES ERJ2GEJ 222 X (2.2 k) B 34.3/41.2 R410 7030004990 S.RES ERJ2GEJ 221 X (220) B 22.6/58.8 R7030007290 S.RES ERJ2GEJ 102 X (1 k) B 34.3/41.2 R410 7030005240 S.RES ERJ2GEJ 221 X (220) B 22.6/58.8 R411 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 15.7/36.8 R410 7030007270 S.RES ERJ2GEJ 102 X (1 k) B 19.8/46.9 R412 7030005200 S.RES ERJ2GEJ 184 X (180 k) B 15.2/32.8 R411 7030005220 S.RES ERJ2GEJ 184 X (180 k) B 15.2/32.8 R414 7030007270 S.RES ERJ2GEJ 151 X (150) B 31.8/44.7 R415 7030005220 S.RES ERJ2GEJ 223 X (22 k) B 15.2/32.8 R416 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.2/32.8 R416 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.2/32.8 R416 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.2/32.8 R416 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.2/32.8 R416 7030005200 S.RES ERJ2GEJ 101 X (100) T 43.5/30.4 R416 7030005120 S.RES ERJ2GEJ 102 X (1 k) B 16.9/29.8 R420 R416 R418 R419											
R409 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 28.6/47.9 R409 7030004990 S.RES ERJ2GEJ 221 X (220) B 22.6/36. R410 7030005240 S.RES ERJ2GEJ 221 X (220) B 22.6/36. R410 7030005240 S.RES ERJ2GEJ 221 X (220) B 22.6/36. R410 7030005240 S.RES ERJ2GEJ 221 X (220) B 22.6/36. R410 7030005240 S.RES ERJ2GEJ 21 X (47 k) B 15.7/36. R410 7030005240 S.RES ERJ2GEJ 21 X (47 k) B 15.7/36. R410 7030005240 S.RES ERJ2GEJ 184 X (47 k) B 15.7/36. R410 7030005240 S.RES ERJ2GEJ 184 X (47 k) B 15.7/36. R410 7030007270 S.RES ERJ2GEJ 115 X (150) B 23.8/42 R414 7030005220 S.RES ERJ2GEJ 184 X (180 k) B 15.2/39. R415 7030007270 S.RES ERJ2GEJ 151 X (150) B 31.8/44.7 R415 7030005220 S.RES ERJ2GEJ 223 X (22 k) B 15.7/36. R410 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.7/36. R410 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.7/36. R410 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.7/36. R410 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.7/30. R410 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.7/30. R410 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.7/30. R410 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 15.7/30. R410 7030005400 S.RES ERJ2GEJ 223 X (22 k) B 15.7/30. R410 7030005400 S.RES ERJ2GEJ 101 X (100) T 43.1/20.6 R418 7030004900 S.RES ERJ2GEJ 102 X (12 k) B 15.8/25. R410 7030005400 S.RES ERJ2GEJ 101 X (100) B 48.4/19.9 R420 7030005500 S.RES ERJ2GEJ 104 X (100 k) B 15.8/25. R410 7030005300 S.RES ERJ2GEJ 102 X (12 k) B 16.2/21. R421 7030005500 S.RES ERJ2GEJ 102 X (12 k) B 16.2/21. R421 7030005500 S.RES ERJ2GEJ 102 X (12 k) B 16.2/21. R421 7030005500 S.RES ERJ2GEJ 473 X (47 k) B 16.2/21. R421 7030005500 S.RES ERJ2GEJ 473 X (47 k) B 16.2/21. R421 7030005500 S.RES ERJ2GEJ 473 X (47 k) B 16.2/21. R421	R5										
Ration R	R6										21/35.8
R9	R7	7030005120	S.RES ERJ2GEJ 102 X (1 k)	E	в		R410			В	22.6/36.7
R410	R8							7030005240	S.RES ERJ2GEJ 473 X (47 k)		15.7/36.1
R14	R9							7030008300	S.RES ERJ2GEJ 184 X (180 k)		14.8/30.2
R15											
Ratio											
R102 7030005030 S.RES ERJ2GEJ 152 X (1.5 k) T 43.5/31.3 R417 7030005120 S.RES ERJ2GEJ 102 X (1 k) B 16.9/29.5 R418 7030004980 S.RES ERJ2GEJ 101 X (100) B 48.4/19.9 R419 703000590 S.RES ERJ2GEJ 101 X (100) B 48.4/19.9 R419 703000590 S.RES ERJ2GEJ 101 X (100) B 13.5/30.5 R418 703000590 S.RES ERJ2GEJ 102 X (1 k) B 15.8/25.5 R418 703000590 S.RES ERJ2GEJ 102 X (1 k) B 15.8/25.5 R418 703000590 S.RES ERJ2GEJ 102 X (1 k) B 15.8/25.5 R418 703000590 S.RES ERJ2GEJ 102 X (1 k) B 15.8/25.5 R418 703000590 S.RES ERJ2GEJ 102 X (1 k) B 15.8/25.5 R419 7030005530 S.RES ERJ2GEJ 100 X (10) B 13.8/26.6 R420 7030005530 S.RES ERJ2GEJ 100 X (10) B 15.8/25.5 R420 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 16.2/21.5 R421 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 15.3/21.5 R421 7030005230 S.RES ERJ2GEJ 473 X (47 k) B 15.3/21.5 R421 7030005230 S.RES ERJ2GEJ 473 X (47 k) B 15.3/21.5 R421 7030005230 S.RES ERJ2GEJ 473 X (47 k) B 17.5/22.5 R422 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 17.5/22.5 R422 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 17.5/22.5 R423 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 21.5/33.5 R4514 7030007270 S.RES ERJ2GEJ 477 X (47 k) B 21.5/33.5 R4514 7030007270 S.RES ERJ2GEJ 151 X (150) T 45/15.3 R452 7030005240 S.RES ERJ2GEJ 184 X (180 k) B 20.5/34.5 R4514 7030007270 S.RES ERJ2GEJ 151 X (150) T 45/16.2 R4514 7030005220 S.RES ERJ2GEJ 223 X (22 k) B 20.2/31.5 R4514 7030005240 S.RES ERJ2GEJ 223 X (22 k) B 20.2/31.5 R4551 7030005140 S.RES ERJ2GEJ 102 X (1 k) B 21.4/27.5 R4551 7030005140 S.RES ERJ2GEJ 102 X (1 k) B 21.4/27.5 R4551 7030005140 S.RES ERJ2GEJ 102 X (1 k) B 21.4/27.5 R4551 7030005140 S.RES ERJ2GEJ 102 X (1 k) B 21.4/27.5 R4551 7030005140 S.RES ERJ2GEJ 102 X (1 k) B											
R103 7030004980 S.RES ERJ2GEJ 101 X (100) T 43.1/20.6 R418 7030004990 S.RES ERJ2GEJ 221 X (220) B 13.5/30. R104 7030004980 S.RES ERJ2GEJ 101 X (100) B 48.4/19.9 R419 7030005090 S.RES ERJ2GEJ 104 X (100 k) B 15.8/25. R106 7030005240 S.RES ERJ2GEJ 105 X (17.5 k) B 48.6/31.1 R421 7030005300 S.RES ERJ2GEJ 107 X (47 k) B 13.8/26. R108 7030008010 S.RES ERJ2GEJ 123 X (12 k) T 41.7/16.2 R422 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 15.3/21. R110 7030009320 S.RES ERJ2GEJ 123 X (12 k) T 41.7/16.2 R422 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 15.3/21. R111 7030005300 S.RES ERJ2GEJ 477 X (4.7) T 34.5/17.4 R423 7030009270 S.RES ERJ2GEJ 473 X (47 k) B 15.3/21. R112 7030005300 S.RES ERJ2GEJ 477 X (4.7) T 36.8/16 R450 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 21.5/33. R114 7030007270 S.RES ERJ2GEJ 151 X (150) T 45/15.3 R451 7030008300 S.RES ERJ2GEJ 184 X (180 k) B 20.2/32. R113 7030007270 S.RES ERJ2GEJ 151 X (150) T 45/16.2 R451 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 20.2/31. R114 7030007270 S.RES ERJ2GEJ 151 X (150) T 45/16.2 R452 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 20.2/31. R114 7030007270 S.RES ERJ2GEJ 151 X (150) T 45/16.2 R453 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 20.2/31. R114 7030007270 S.RES ERJ2GEJ 151 X (150) T 45/16.2 R453 7030005200 S.RES ERJ2GEJ 223 X (22 k) B 20.2/31. R114 7030007270 S.RES ERJ2GEJ 105 X (1 M) T 31.1/12.1 R455 7030005100 S.RES ERJ2GEJ 102 X (1 k) B 21.4/27.	R102										16.9/29.2
R104 7030004980 S.RES ERJ2GEJ 101 X (100) B 48.4/19.9 R419 703000590 S.RES ERJ2GEJ 104 X (100 k) B 15.8/25. R420 7030005240 S.RES ERJ2GEJ 102 X (17 k) B 48.2/29.9 R420 7030005530 S.RES ERJ2GEJ 103 X (17 k) B 13.8/26. R420 R	R103	7030004980	S.RES ERJ2GEJ 101 X (100)	-	т			7030004990	S.RES ERJ2GEJ 221 X (220)	В	13.5/30.9
R106	R104	7030004980	S.RES ERJ2GEJ 101 X (100)			48.4/19.9		7030005090	S.RES ERJ2GEJ 104 X (100 k)		15.8/25.7
R108 7030008010 S.RES ERJ2GEJ 123 X (12 k) T 41.7/16.2 R422 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 15.3/21.2 R423 7030009320 S.RES ERJ2GEJ 473 X (47 k) B 17.5/22.2 R423 7030009320 S.RES ERJ2GEJ 473 X (47 k) B 17.5/22.2 R423 7030009320 S.RES ERJ2GEJ 473 X (47 k) B 21.5/33.2 R412 7030007270 S.RES ERJ2GEJ 473 X (47 k) B 21.5/33.2 R450	R105										13.8/26.4
R410	R106										16.2/21.2
R111											
R112											
R113		7030003330	S.RES ER,12GF.1 4R7 X (4.7)								
R114	R112										20.2/32.4
R118 7030004980 S.RES ERJ2GEJ 101 X (100) T 31.1/13 R454 7030005220 S.RES ERJ2GEJ 223 X (22 k) B 20.2/31. R119 7030007290 S.RES ERJ2GEJ 222 X (2.2 k) T 31.1/12.1 R455 7030005110 S.RES ERJ2GEJ 224 X (220 k) B 24.2/32. R150 7030005160 S.RES ERJ2GEJ 105 X (1 M) T 39.4/34.4 R456 7030005120 S.RES ERJ2GEJ 102 X (1 k) B 21.4/27.	R114										
R119 7030007290 S.RES ERJ2GEJ 222 X (2.2 k) T 31.1/12.1 R455 7030005110 S.RES ERJ2GEJ 224 X (220 k) B 24.2/32. R150 7030005160 S.RES ERJ2GEJ 105 X (1 M) T 39.4/34.4 R456 7030005120 S.RES ERJ2GEJ 102 X (1 k) B 21.4/27.	R118	7030004980	S.RES ERJ2GEJ 101 X (100)			31.1/13	R454	7030005220	S.RES ERJ2GEJ 223 X (22 k)	В	20.2/31.5
	R119							7030005110	S.RES ERJ2GEJ 224 X (220 k)		24.2/32.8
1101	R150										21.4/27.5
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side	R151	/030005050	5.HES EHJ2GEJ 103 X (10 k)		ľ	37.7/35.9		-		$\overline{}$	24.2/30.1

[RF UNIT] [RF UNIT]

AGE PRODUCTION Control Contr	[RF U	NIT]				[RF UNIT]					
SAME PROBLEM 100			DESCRIPTION	M.				DESCRIPTION	м.	H/V LOCATION	
9.0000000000 Series Enclosed 170 Activity Series Series Enclosed 180 X 169 T 2 2 2 1 1 1 1 1 1 1	R458	7030005090	S.RES ERJ2GEJ 104 X (100 k)	В	24.1/26.9					18.8/24.6	
Mail										17.1/24	
Mage											
1960 1960											
REST PRODUCTION PRODUCTIO										14.5/12.3	
PRINCE PRINCE 177										16.1/12.3	
PRINCE P	R502					R854				15.8/7	
1956	R503				32.9/30.2					15.8/5.3	
REST TO00000410 REST EMUCAL SEX X, SS IA T ZABSE REST TO00006700 REST STALEGEL 10 X, 10 IA T T 7.71	R504									12.7/10.4	
1988 1985											
1900 1900											
Product										7.4/32.9	
1811 2000006900 SRES ERLOGEL 143 X (100 N) T 2 A-503										11.5/30.1	
1931 1930009500 S.RES ERL/GEL 100 x (10) T 2 a/16.6 R777 705000770 S.RES ERL/GEL 131 x (150) T 2 a/16.6 R777 R787 R	R511	7030005050	S.RES ERJ2GEJ 103 X (10 k)	Т						24.5/33.2	
1961 1960, 1960, 1960 1960 1960 1960,	R512									24/32	
93.5 70.00007200 SRES ERL/GEL 22 X 22 X 24 X 67 X 1											
Bis16 7000009200 SRES ERAZGEL 473 × (17 h) B 15.711.7 RP2 7000009200 SRES ERAZGEL 104 × (180 h) T 28.052 RP3 R											
7000007500 S.R.ES ERJ2GEL 332 X (3.9 x) T 28.96.3 R898 700000500 S.R.ES ERJ2GEL 194 X (100 x) T 7.7246 R898 700000500 S.R.ES ERJ2GEL 194 X (100 x) T 7.7246 R898 700000500 S.R.ES ERJ2GEL 194 X (100 x) T 7.7246 R898 700000500 S.R.ES ERJ2GEL 194 X (100 x) T 7.7246 R898 700000500 S.R.ES ERJ2GEL 194 X (100 x) T 7.7246 R898 R898 700000500 S.R.ES ERJ2GEL 194 X (100 x) T 7.7246 R898 R898 700000500 S.R.ES ERJ2GEL 194 X (100 x) T 7.7246 R898 R898 700000500 S.R.ES ERJ2GEL 194 X (100 x) T 7.7246 R898										20.8/27.5	
\$1.000006240 S.RES E. E. E. E. E. E. E. H. 1904 \$1.000 \$1.00006200 S.RES E.										7.3/24.7	
R002	R518					R981			T	7.3/26.3	
REGOD	R602			В						11.5/28.5	
Record	R603									7.9/31.7	
REOF											
R600						RIOUI	7030005090	S.RES ERJZGEJ 104 X (100 K)	'	37.5/12.3	
Reform 7000004690 S.R.ES ERLZGEJ 101 X (100) B 32.827.3 C1 4030017560 S.C.ER E.C.JGECH-H2RSE T 10.1487.6 T 10.1487						- 1					
R611 7000005490 S.RES EAL/SCEJ 147 X (7 N) B 2024.7 C 4000017380 S.CER E.C./BECT-104008 T 11.346.7 T 12.466.7 T 1						C1	4030017560	S.CER ECJ0EC1H2R5B	Т	10.1/43.8	
Reig 1 7000000290 S.R.ES P.	R611					C2	4030017380			11.3/44.1	
Reid	R612	7030005240		В						14.5/40.7	
Reis 7000006200 S.RES ERLOGEL 123 X (22 k) B 24.917.1 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7114.2 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 22.7115.4 C 4030017400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.5116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.7116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.7116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.7116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.7116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.7116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.7116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.7116.6 C 10.400007400 S.CER ELLOGEL 123 X (22 k) B 20.7116.6 C 20.400007400 S.CER ELLOGEL 120 X (22 k) B 20.7116.6 C 20.400007400 S.C	R613					1 '				12.2/44.1	
Reif 703005220 S.RES ERIZGEL 223 X (22 k) B 23.711-4.2 C7 4030017400 S.CER EGUECH1220.1 T 23.441 Reif 70300510 S.RES ERIZGEL 224 X (220 k) B 24.916.2 C9 4030017400 S.CER EGUECH1220.1 T 23.441 Reif 70300510 S.RES ERIZGEL 102 X (10 k) B 19.716.7 C12 4030017400 S.CER EGUECH1480.1 T 20.642 Reif 70300510 S.RES ERIZGEL 102 X (10 k) B 24.916.2 C9 4030017400 S.CER EGUECH1480.1 T 20.642 Reif 70300510 S.RES ERIZGEL 100 X (10 k) B 70.916.7 C12 4030017550 S.CER EGUECH1480.1 T 20.642 Reif 70300520 S.RES ERIZGEL 100 X (10 k) B 70.916.7 C12 4030017550 S.CER EGUECH1480.1 T 20.642 Reif 70300520 S.RES ERIZGEL 173 X (47 k) B 19.711 C14 4030017550 S.CER EGUECH1480.1 T 28.642 Reif 70300520 S.RES ERIZGEL 173 X (47 k) B 31.221.3 C17 4030017550 S.CER EGUECH1480.1 T 28.642 Reif 70300520 S.RES ERIZGEL 173 X (47 k) B 31.221.3 C17 4030017550 S.CER EGUECH1480.1 T 28.642 Reif 70300520 S.RES ERIZGEL 173 X (47 k) B 31.221.3 C17 4030017550 S.CER EGUECH1480.1 T 28.642 Reif 70300520 S.RES ERIZGEL 173 X (47 k) B 31.221.3 C17 4030017550 S.CER EGUECH1480.1 B 4.248 Reif 70300520 S.RES ERIZGEL 173 X (47 k) B 30.641.2 C22 403001740 S.CER EGUECH1480.1 B 4.248 Reif 70300520 S.RES ERIZGEL 123 X (22 k) B 30.641.2 C22 403001740 S.CER EGUECH1480.1 B 3.248 Reif 70300520 S.RES ERIZGEL 123 X (22 k) B 32.716.9 C22 403001740 S.CER EGUECH1480.1 B 3.248 Reif 70300520 S.RES ERIZGEL 123 X (22 k) B 32.716.9 C22 403001740 S.CER EGUECH1690.1 B 3.248 Reif 70300520 S.RES ERIZGEL 123 X (22 k) B 32.716.9 C22 403001740 S.CER EGUECH1690.1 B 3.248 Reif A.108 Reif A											
Rei											
Reispoons										23.4/41.6	
Re19 7030005120 S.RES ERLZGELJ (12 X (14) B 19,7116.7 C11 4030017550 S.CER ECJDECTHIRBB T 20,644,										23/40.6	
Re21 7309005240 S.RES ERJØEL 100 X (17) B 17.917.1 C12 4090017580 S.CER ECJØEC1H060C T 2 20.648. Re22 7309005240 S.RES ERJØEL 473 X (47 K) B 1 20.911.6 C13 4090017580 S.CER ECJØEC1H1R5B T 21.848. Re23 7309005240 S.RES ERJØEL 473 X (47 K) B 1 6.3416.1 C16 4090017550 S.CER ECJØEC1H1R5B T 21.848. Re24 7309005240 S.RES ERJØEL 473 X (47 K) B 31.522.3 C17 4090017580 S.CER ECJØEC1H1R5B B 4.940. Re50 7309005240 S.RES ERJØEL 473 X (47 K) B 31.522.3 C17 4090017580 S.CER ECJØEC1H1R5B B 4.940. Re61 7309005240 S.RES ERJØEL 473 X (47 K) B 31.522.3 C17 4090017580 S.CER ECJØEC1H1R5B B 4.940. Re62 7309005240 S.RES ERJØEL 473 X (47 K) B 31.522.3 C17 4090017580 S.CER ECJØEC1H1R5B B 4.940. Re63 7309005240 S.RES ERJØEL 473 X (47 K) B 31.522.3 C17 4090017580 S.CER ECJØEC1H1R5B B 4.940. Re64 7309005240 S.RES ERJØEL 473 X (47 K) B 31.522.3 C17 4090017580 S.CER ECJØEC1H1R5B B 4.940. Re65 7309005240 S.RES ERJØEL 475 X (47 K) B 32.7163 C22 4090017480 S.CER ECJØEC1H20K B 32.7163 C23 4090017490 S.CER ECJØEC1H20K T 7 29.714 S.CER ECJØEC1H20K B 32.914 S.CER ECJØEC1H20K T 7 29.714 S.CER ECJØEC1H20K S.CER ECJØEC1H20K T 7 29.714 S.CER ECJØEC1H20K T 7	R619					C10				20.6/42.3	
Re22 7030005240 S.RES ERJ2GEL 1473 X (47 k) B 20.911.6 C13 4030017400 S.CER E.C.DEC1H22QU T 21.844 Re24 7030009270 S.RES ERJ2GEL 1473 X (47 k) B 19.7111 C14 4030017550 S.CER E.C.DEC1H1R5B T 21.844 Re24 7030009270 S.RES ERJ2GEL 1473 X (47 k) B 31.292.3 C17 4030017550 S.CER E.C.DEC1H1R5B B 4.908 Re57 7030005240 S.RES ERJ2GEL 1473 X (47 k) B 31.292.3 C17 4030017550 S.CER E.C.DEC1H1R5B B 4.908 Re57 7030005240 S.RES ERJ2GEL 1484 X (180 k) B 31.292.3 C24 4030017400 S.CER E.C.DEC1H165B B 4.208 C17 C18	R620	7030004990	S.RES ERJ2GEJ 221 X (220)		20.5/19.6					21.8/42.4	
Re23 7030005240 S.RES ERL/GEL 273 X (47 k) B 19.7111 C14 4030017550 S.CER ECJ0ECH1HRSB B 4.978 C17	R621									20.6/43.9	
R624 1030009270 S.RES ERJ2GEL 921 X (920) B 16,3716.1 16 4030017550 S.CER ECJ0ECH141R5B B 4,9740 R657 7030005240 S.RES ERJ2GEL 973 X (47 k) B 31,272.1 C18 4030017550 S.CER ECJ0ECH141R5B B 4,2748 R657 7030005200 S.RES ERJ2GEL 184 X (180 k) B 28,879.1 C20 4030017460 S.CER ECJ0ECH1421 B 3,3748 R657 703000520 S.RES ERJ2GEL 184 X (180 k) B 32,777.8 C22 4030017460 S.CER ECJ0ECH1621 B 30,747 S.CER ECJ0ECH1627 C22 4030017460 S.CER ECJ0ECH1621 B 30,747 S.CER ECJ0ECH1627 C23 C24 4030017460 S.CER ECJ0ECH1621 B 32,777.8 C25 4030017460 S.CER ECJ0ECH1621 B 32,944 S.CER ECJ0ECH1627 C25 C2											
RESD 7030005240 S.RES ERL/GEL/373 X (47 k) B 31.2/22.3 C17 4030017560 S.CER ECJ0ECH1R5B B 4.2/38 ReS2 7030005300 S.RES ERL/GEL/373 X (47 k) B 31.6/21.1 C18 4030017580 S.CER ECJ0ECH1R5B B 3.3/48 ReS2 7030005300 S.RES ERL/GEL/38 X (190 k) B 28.6/19.1 C20 4030017440 S.CER ECJ0ECH121J B 33.443 ReS2 7030005300 S.RES ERL/GEL/283 X (22 k) B 32.7/16.9 C22 4030017440 S.CER ECJ0ECH121J B 33.443 ReS2 R											
R651										4.2/38.2	
R652 7030008300 S.RES ERJ2GEL 194 X (180 k) B 30.747 B 30.747 R654 703000520 S.RES ERJ2GEL 194 X (180 k) B 30.747 R654 703000520 S.RES ERJ2GEL 123 X (22 k) B 32.716.9 C23 403001746 S.CER ECJ0EBITIO2K B 30.747 R656 7030005210 S.RES ERJ2GEL 123 X (22 k) B 32.717.8 C26 403001746 S.CER ECJ0EBITIO3K B 27.916 C27 C										3.3/38.2	
R654 7030005220 S.R.ES EPL/2GEL 123 X (22 k) B 32.717.8 C24 4030017460 S.C.ER ECL/DEBITIONS B 27.918.8 S.C. R655 7030005210 S.R.ES ERL/2GEL 124 X (220 k) B 33.2/19.7 C26 4030017460 S.C.ER ECL/DEBITIONS T 29.748.8 C28 C29.0	R652					C20	4030017440	S.CER ECJ0EC1H221J		33.4/43.2	
R855 7030005110 SRES ERI/2GEJ 222 X (22 k) B 32.717.8 C25 4030017440 S.CER EG/DECT-1425 J B 32.918.7 C30005110 SRES ERI/2GEJ 222 X (1k) B 32.414.8 C27 4030017460 S.CER EG/DECT-102K T 34.648.8 C37 C3000510 SRES ERI/2GEJ 102 X (1k) B 32.414.8 C27 4030017460 S.CER EG/DECT-102K T 34.648.8 C37 C3000520 SRES ERI/2GEJ 102 X (1k) B 32.918.7 C3000520 SRES ERI/2GEJ 102 X (1k) B 37.918.1 C29 4030017620 S.CER EG/DECT-1100C B 24.938.8 C38 40300077620 S.CER EG/DECT-1100C B 24.938.8 C38 40300077620 S.CER EG/DECT-1100C B 24.938.8 C38 40300077620 S.CER EG/DECT-1100C B 24.938.9 C38 C	R653									30.7/47.5	
RESPO											
R855 7039005120 S.RES ERL/GEL 102 X 1 k) B 32.4/14 B 32.4/14 B 32.4/14 B 34.645 B											
RESS 7030004990 S. PES ERL/RGEL 121 \times 220 S. PES 27.911 S. P.										34.6/45.3	
R659										25/42.4	
R861	R659									24.9/39.7	
RRES	R660									29.6/39.7	
R700										34.3/40.3	
R701											
R703										28.5/45.7	
R703										35/47.7	
R706	R703			В		C37	4030017390	S.CER ECJ0EC1H180J	В	26.3/46.2	
R706	R704									23.7/45	
R708 R708 R708 R708 R708 R708 R708 R708 R709 R708										23.7/47.1	
R708 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 6.6/77 C44 4030017340 S.CER EGJ0EF1C104Z T 24.7/45 R709 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 5.7/17 C44 4030017460 S.CER EGJ0EF1C104Z T 24.7/45 R711 7030005220 S.RES ERJ2GEJ 223 X (22 k) B 9.1/15.9 C45 4030017460 S.CER EGJ0EB1E102K T 24.7/47 C47 C48 C4											
R709 7030005240 S.R.ES ERJ2GEJ 473 X (47 k) B 5.7/17 C44 4030017460 S.C.ER E.C.J0EB1E102K T 32.6/42K R710 7030007220 S.R.ES ERJ2GEJ 220 X (22) B 10.3/15.3 C45 4030017460 S.C.ER E.C.J0EB1E102K T 24.7/47 C45										24.7/45.6	
R710										32.6/40.9	
R711	R710							S.CER ECJ0EB1E102K	T	24.7/47.2	
R713 703004990 S.RES	R711	7030005220	S.RES ERJ2GEJ 223 X (22 k)	В	9.1/15.9		4030016790	S.CER ECJ0EB1C103K		27.6/41.3	
R714 7030007290 S.RES ERJ2GEJ 222 X (2.2 k) B 11.9/12.1 C49 4030017400 S.CER ECJ0EC1H220J B 19/47. R818 R818 R818 R030005240 S.RES ERJ2GEJ 103 X (10 k) T 24.1/20.9 R801 703000550 S.RES ERJ2GEJ 103 X (10 k) T 24.1/20.9 R802 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 C102 4030017620 S.CER ECJ0EC1H300J T 33.8/35 R802 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 C102 4030017620 S.CER ECJ0EC1H300L Except [USA], [USA-1] T 33.8/35 R804 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 C102 4030006990 S.CER ECJ0EC1H300L Except [USA], [USA-1] T 33.8/35 R805 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 24.1/21.8 R805 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 24.1/21.8 R805 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 24.1/21.8 R807 703000590 S.RES RR0510P-332-D (3.3 k) T 11.2/22.9 R808 703000590 S.RES RR0510P-332-D (3.3 k) T 14/21.9 C104 4030007030 S.CER C1608 CH 1H 150J-T T 35.9/3 35.9/3 C104 4030007030 S.CER C1608 CH 1H 330J-T T 35.9/3 C104 4030007030 S.CER C1608 CH 1H 330J-T T 35.9/3 C104 4030007030 S.CER C1608 CH 1H 30J-T T 35.9/3 C104 4030007030 S.CER C1608 CH 1H 150J-T T 35.9/3 S.CER C1608 CH 1H 150J-T T 35.9	R712	7030007280	S.RES ERJ2GEJ 331 X (330)		9.1/12.5					5.3/39.2	
R715 7030005240 S.RES ERJ2GEJ 473 X (47 k) B 12.7/16.3 C100 4030017670 S.CER ECJ0EC1H390J T 32.1/39 33.8/35 R801 7030005050 S.RES ERJ2GEJ 103 X (10 k) T 24.1/20.9 C101 4030017670 S.CER ECJ0EC1H390J T 33.8/35 S.CER 2.0EC1H390J T 33.8/35 T 33	R713									23.8/41.1	
R800 7030005050 S.RES ERJ2GEJ 103 X (10 k) T 24.1/20.9 R801 7030005050 S.RES ERJ2GEJ 103 X (10 k) T 18.3/25.8 R802 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 R804 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 R805 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 R806 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 R807 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 24.1/21.8 R808 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 24.1/21.8 R809 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 24.1/21.8 R809 7030005120 S.RES RR0510P-471-D (470) T 9.5/18.5 R800 7030005190 S.RES RR0510P-332-D (3.3 k) T 11.2/22.9 R801 703000590 S.RES RR0510P-332-D (1.2 k) T 9.5/19.4 R811 7030010040 S.RES ERJ2GEJ-JPW T 14/21.9 C104 4030007070 S.CER C1608 CH 1H 150J-T T 37.4/32 R811 7030010040 S.RES ERJ2GEJ-JPW T 14/21.9 C106 4030017350 S.CER C1608 CH 1H 750J-T T 37.4/32 R818 7030004980 S.RES ERJ2GEJ-101 X (100) T 24.8/15.7 R818 7030005700 S.RES ERJ2GEJ 101 X (100) T 24.8/15.7 R820 7030005700 S.RES ERJ2GEJ 103 X (10 k) T 19.6/18.4 R821 7030005700 S.RES ERJ2GEJ 322 X (2.2 k) B 41.3/17.8 R824 7030007290 S.RES ERJ2GEJ 222 X (2.2 k) B 41.3/17.8 R824 7030007290 S.RES ERJ2GEJ 222 X (2.2 k) T 45.1/30.											
R801										33.8/35.2	
R802 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 21.7/25.1 R803 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 R805 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 22.6/25.1 R805 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 23.9/22.7 R805 7030005120 S.RES ERJ2GEJ 102 X (1 k) T 24.1/21.8 R806 7030011170 S.RES RR0510P-471-D (470) T 9.5/18.5 R807 703000190 S.RES RR0510P-32-D (3.3 k) T 11.2/22.9 R808 703000590 S.RES RR0510P-122-D (1.2 k) T 9.5/19.4 R811 7030010040 S.RES ERJ2GEJ-JPW T 14/21.9 R818 7030010040 S.RES ERJ2GEJ-JPW T 14/21.9 R818 7030004980 S.RES ERJ2GEJ-JPW T 10.6/17.1 C104 4030017350 S.CER C1608 CH 1H 150J-T T 28.5/44 R819 7030005300 S.RES ERJ2GEJ-JPW T 10.6/17.1 C104 4030017350 S.CER C1608 CH 1H 750J-T T 33.7/4/32 R820 7030005050 S.RES ERJ2GEJ-101 X (100) T 24.8/15.7 C108 4030017460 S.CER ECJ0EB1E102K T 38.7/23 R822 7030005040 S.RES ERJ2GEJ-363 X (56 k) T 22.1/15.7 R822 7030005040 S.RES ERJ2GEJ-322 X (2.2 k) B 41.3/17.8 C113 4030017460 S.CER ECJ0EB1E102K T 43.9/24 R824 7030007290 S.RES ERJ2GEJ-322 X (2.2 k) B 41.3/17.8 C113 4030017460 S.CER ECJ0EB1E102K T 43.9/24 R3.9/24						15.51			1 1	33.0,00.2	
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R815 7030010040 S.RES ERJ2GEJ-JPW T 10.6/17.1 C107 4030011540 S.CER C1608 CH 1H 750J-T T 33.7/4 R818 7030004980 S.RES ERJ2GEJ 101 X (100) T 24.8/15.7 C108 4030017460 S.CER ECJ0EB1E102K T 38/23. R819 7030005050 S.RES ERJ2GEJ 270 X (27) T 19.2/16.2 C109 4550007650 S.TAN F931V105MAABMA T 33.7/23 R821 7030005720 S.RES ERJ2GEJ 563 X (56 k) T 22.1/15.7 R822 7030005080 S.RES ERJ2GEJ 823 X (82 k) T 21.2/15.7 R823 7030005040 S.RES ERJ2GEJ 472 X (4.7 k) B 46.1/17.1 R824 7030007290 S.RES ERJ2GEJ 222 X (2.2 k) B 41.3/17.8 C113 4030017460 S.CER ECJ0EB1E102K T 43.9/24 R5.1/30 R50007500 S.CER ECJ0EC1H560J [USA], [USA-1] T 43.9/24 R500007500 S.CER ECJ0EC1H560J [USA], [USA-1] T 43.9/24 R500007500 S.CER ECJ0EC1H560J [USA], [USA-1] T 43.9/24 R500007500 S.CER ECJ0EB1E102K T 4										28.5/44.1	
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R819	R818							S.CER ECJ0EB1E102K	T	38/23.2	
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No. Profession Profession	[RF UNIT] [RF UNIT]											
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13.25 13.00017980 S.CER ECLIFECH HORDO T 3.051770 C.SER ECLIFECH HORDO T 3.051770 C.SER ECLIFECH HORDO T 3.05270 C.SER ECLIFICATION T 3.05270 C.SER ECLIFICATION T 3.05270 C.SER ECLIFICATION T 3.05270 C.SER ECLIFICATION T 3.05270 C.SER ECLIFECH HORDO T 3.05270 C.SER ECLIFER												
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C144 4000017930 S.CER E.C.DEELTIONSC T 40.170.3 C335 4000017930 S.CER E.C.DEELTIONSC T 29.508.4 C159 4000017930 S.CER E.C.DEELTIONSC T 38.594.4 C338 4000017930 S.CER E.C.DEELTIONSC T 38.594.4 C338 4000017930 S.CER E.C.DEELTIONSC T 38.594.4 C338 4000017930 S.CER E.C.DEELTIONSC T 46.1767.5 C338 4000017930 S.CER E.C.DEELTIONSC T 40.000017930 S.CER E.C.DEELTIONSC T 40.00001793 S.CER E.C.DEELTIONSC T												
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C162												
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C169												
0.707 0.00017400 S.CER E.C.JEBS1E102K												
C171												
C1724 4030017740 S.CER EGJ0EC1H271JK B 48.275.4 4030017740 S.CER EGJ0EC1H470JK B 18.278.9		4030017460	S.CER	ECJ0EB1E102K				4030016790	S.CER	ECJ0EB1C103K		
C174 4030017730 S.CER EQUBESIFATIK B 48,422.54 C417 4030017460 S.CER EQUBESIFICORK B 18,672.54 C418 4030017460 S.CER EQUBESIFICORK B 13,672.54 C419 4030017460 S.CER EQUBESIFICORK B 17,372.54 C419 4030017460 S.CER EQUBESIFICORK B 18,374.54 C419 4030017460 S.CER EQUBESIFICORK B 12,374.54 C419 4030017460 S.CER EQUBESIFICORK B 13,678.44 C419 4030017460 S.CER EQUBESIFICORK B 13,678.44 C419 4030017460 S.CER EQUBESIFICORK B 13,678.44 C419 4030017460 S.CER EQUBESIFICORK B 14,578.54 C419												
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C176												
C201 4030017600 S.CER ECJ0EC1H120J B 14.442 C203 4030017600 S.CER ECJ0EC1H160J B 14.592.4 4030017600 S.CER ECJ0EC1H160J B 14.592.4 4030017600 S.CER ECJ0EC1H160J B 14.742 C204 4030017600 S.CER ECJ0EC1H160J B 14.742 C204 4030017600 S.CER ECJ0EC1H160J B 17.392.4 4030017600 S.CER ECJ0EC1H160J B 16.992.6 4030017600 S.CER ECJ0EC1H160J B 18.392.1 S.CER E					Т						В	
2029 4030017580 S.CER ECJ0EC1H1680C B 14.740.8 C.422 4030017480 S.CER ECJ0EC1H190C B 17.324.4 4030017410 S.CER ECJ0EC1H190C B 17.324.4 4030017400 S.CER ECJ0EC1H1820J B 18.241.7 C.425 4030017460 S.CER ECJ0EC1H1820J B 18.241.7 C.425 4030017460 S.CER ECJ0EC1H183D B 18.241.7 C.425 4030017460 S.CER ECJ0EC1H185B B 22.675.8 C.450 4030017460 S.CER ECJ0EC1H185D B 14.324.4 C.451 4030017430 S.CER ECJ0EC1H185D B 14.578.4 C.452 4030017460 S.CER ECJ0EC1H185D B 24.2783.7 C.260 4030017430 S.CER ECJ0EC1H101J B 13.678.8 C.452 4030017460 S.CER ECJ0EC1H1050 B 11.2784.6 C.452 4030017460 S.CER ECJ0EC1H1050 B 12.7784.6 C.452 4030017460 S.CER ECJ0ECH1850 B 22.7784.6 C.452 4030017460 S.CER ECJ0ECH1850 B 24.1792.8 C.454 4030017460 S.CER ECJ0ECH1850 B 24.1792.8 C.455 4030017460 S.CER ECJ0ECH1850 B 24.1792.8 C.4												
C203 4030017860 S.CER ECJ0ECTH080C B 11.5/43.5 C423 4030017400 S.CER ECJ0ECTH090C B 17.3/24.2												
C204 4030017680 SCER ECJ0ECH1820J B 11.2/41.7 C424 4030017460 SCER ECJ0ECH1810J B 18.2/11.2												
C206					В		C424				В	
C207												
C209 4030017490 S.CER ECJ0ECH1080C B 11.2/88.4 C452 4030017480 S.CER ECJ0ECH1051 B 13.6/88.9 C453 4030017480 S.CER ECJ0ECH1055K B 21.7/34.6 C210 4030018800 S.CER ECJ0EB1.104K B 14.5/86.2 C454 4030018800 S.CER ECJ0EB1.105K B 13.6/38 C455 4030017400 S.CER ECJ0EB1.105K B 24.2/21.9 C212 4030018900 S.CER ECJ0EB1.104K B 14.5/86.2 C455 4030017400 S.CER ECJ0EB1.103K B 24.2/21.9 C213 4030017400 S.CER ECJ0EB1.104K B 14.5/86.2 C456 4030017400 S.CER ECJ0EB1.103K B 24.2/21.9 C214 4030017400 S.CER ECJ0EB1.103K B 24.2/21.9 C214 4030017400 S.CER ECJ0EB1.103K B 24.2/21.9 C214 4030017400 S.CER ECJ0EB1.103K B 24.2/21.9 C215 4030017400 S.CER ECJ0EB1.102K B 24.2/21.1 C214 4030017400 S.CER ECJ0EB1.102K B 24.2/21.1 C214 4030017400 S.CER ECJ0EB1.102K B 24.2/21.1 C215 4030017400 S.CER ECJ0EB1.103K B 24.2/21.1 C215 4030017400 S.CER ECJ0EB1.103K B 24.2/21.1 C215 4030017400 S.CER ECJ0EB.1103K B 24.2/21.1 C215 4030017400 S.CER ECJ0EB.1103K B 20.6/26 C254 4030017400 S.CER ECJ0EB.1103K B 20.6/26 C254 4030017400 S.CER ECJ0EB.1103K B 20.6/26 C254 4030017400 S.CER ECJ0ECH.1103K B 20.6/26 C255 4030017400 S.CER ECJ0EB.1103K B 20.6/26 C256 4030017400 S.CER ECJ0ECH.1103K B 23.7/10.2 C256 4030												
C209												
C211	C209	4030017430	S.CER	ECJ0EC1H101J	В	13.6/38.9	C453	4030017380	S.CER	ECJ0EC1H050B	В	
C213												
2213 4030017460 S.CER EGJOEB15102K T 8.56.4 C459 4030017460 S.CER EGJOEB15102K B 22.827.2 C215 4030018860 S.CER EGJOEB16103K B 20.545.9 C459 4030017460 S.CER EGJOEB16102K B 22.827.2 C215 4030016760 S.CER EGJOEB16103K B 8.1/31.7 C459 4030017460 S.CER EGJOEB16102K B 22.827.2 C452 4030017460 S.CER EGJOEB16103K B 6.827 C452 4030017460 S.CER EGJOEB16103K B 6.827 C463 4030017400 S.CER EGJOECH4930J B 21.9/23.5 C463 4030017400 S.CER EGJOECH4930J B 20.626.1 C464 4030017400 S.CER EGJOECH4930J B 20.626.1 C465 4030017400 S.CER EGJOECH4910J B 20.620.8 C465 4030017400 S.CER EGJOECH4910J B 20.620.8 C465 4030017400 S.CER EGJOECH4910J B 19.8/22.7 C468 4030017400 S.CER EGJOECH4010J B 23.7/10.7 C258 4030017400 S.CER EGJOECH4070J B 13.4/21.2 C471 4030017400 S.CER EGJOECH4070J B 23.7/10.7 C470 4030017400 S.CER EGJOECH4070J B 22.667.3 C469 4030017400 S.CER EGJOECH4070J B 22.667.5 C469 4030017400 S.CER EGJOECH4070J B 22.667.3 C469 4030017400 S.CER EGJOECH4070J B 22.667.5 C469 4030017400 S.CER EG											-	
C215												
C250	C214	4030017460	S.CER	ECJ0EB1E102K	Т	10.7/7.9	C459	4030017460	S.CER	ECJ0EB1E102K	В	22.8/27.2
C251												
C252 4030017460 S.CER ECJ0EC1H100C B 9.9/28.7 C464 4030017440 S.CER ECJ0EC1H101J B 20.8/20.8 C254 4030016790 S.CER ECJ0EC1H100K B 11.5/28.2 C465 4030016790 S.CER ECJ0EC1H100K B 11.5/28.2 C465 4030017440 S.CER ECJ0EC1H101J B 20.8/20.8 C256 4030016930 S.CER ECJ0EC1H100C B 10.6/23.7 C468 4030017460 S.CER ECJ0EC1H100C B 11.5/28.2 C469 4030017460 S.CER ECJ0EC1H100C B 11.5/28.2 C470 4030017460 S.CER ECJ0EC1H100C B 12.9/26.4 C470 4030017460 S.CER ECJ0EC1H100C B 12.9/26.4 C470 4030017460 S.CER ECJ0EC1H100C B 23.7/10.7 C469 4030017460 S.CER ECJ0EC1H100C B 25.5/10.6 C259 4030017460 S.CER ECJ0EC1H100C B 23.7/10.7 C470 4030017420 S.CER ECJ0EC1H1470J B 25.5/10.6 C259 4030017460 S.CER ECJ0EC1H330J B 10.9/20 C472 4030017420 S.CER ECJ0EC1H470J B 24.6/10.6 C259 4030017420 S.CER ECJ0EC1H470J B 24.6/10.6 C259 4030017420 S.CER ECJ0EC1H470J B 22.6/5.3 C262 4030017400 S.CER ECJ0EC1H470J B 22.6/5.3 C262 4030017420 S.CER ECJ0EC1H470J B 22.6/5.3 C262 4030017400 S.CER ECJ0EC1H470J T 22.6/3.6 C262 4030017400 S.CER ECJ0EC1H470J T 22.6/3.6												
C255												
C255 4030016790 S.CER EGJ0EB16103K B 12.2/26.6 C466 4030017580 S.CER EGJ0EC1H060C B 18.9/26.4 C256 4030016930 S.CER EGJ0EC1H100C B 10.6/23.7 C468 4030017460 S.CER EGJ0EB16103K B 17.5/42.5 C257 4030017607 S.CER EGJ0EB16103K B 13.7/19.2 C470 4030017420 S.CER EGJ0EC1H470J B 23.7/10.7 C259 4030017400 S.CER EGJ0EC1H330J B 13.4/21.2 C471 4030017420 S.CER EGJ0EC1H470J B 24.6/10.6 C261 4030017420 S.CER EGJ0EC1H470J B 13.6/17.2 C473 4030017420 S.CER EGJ0EC1H470J B 22.6/5.5 C262 4030017420 S.CER EGJ0EC1H470J B 12.9/24.8 C475 4030017730 S.CER EGJ0EC1H470J B 22.6/5.3 C263 4030017420 S.CER EGJ0EC1H470J B 8	C253	4030017620	S.CER	ECJ0EC1H100C	В	9.9/28.7	C464	4030017440	S.CER	ECJ0EC1H221J		20.8/20.8
C256 4030016930 S.CER ECJ0EB1A104K B 1 22/25.7 C48 4030017620 S.CER ECJ0EC1H100C B 10.6/23.7 C469 4030017460 S.CER ECJ0EB1E102K B 23.7/10.7 C258 4030017460 S.CER ECJ0EB1E102K B 13.4/21.2 C470 4030017420 S.CER ECJ0EC1H470J B 22.6/5.5 C260 4030017420 S.CER ECJ0EC1H470J B 13.6/17.2 C471 4030017420 S.CER ECJ0EC1H470J B 21.9/3.6 C261 4030017420 S.CER ECJ0EC1H470J B 12.9/24.8 C472 4030017420 S.CER ECJ0EC1H470J B 22.6/5.5 C263 4030017420 S.CER ECJ0EC1H470J B 2.5/6.4 C474 4030017460 S.CER ECJ0EB1E102K B 22.6/7.3 C264 4030017420 S.CER ECJ0EC1H470J B 8/24.6 C500 4030017360 S.CER ECJ0EB1E102K T 31.7/33.5								4030017430	S.CER	ECJ0EC1H001J		
C257 4030017620 S.CER EGJ0EC1H100C B 10.6/23.7 C258 4030017640 S.CER EGJ0EB1C103K B 13.7/19.2 C470 4030017420 S.CER EGJ0EC1H470J B 25.5/10.6 C269 4030017660 S.CER EGJ0EC1H330J B 13.4/21.2 C471 4030017420 S.CER EGJ0EC1H470J B 24.6/10.6 C261 4030017420 S.CER EGJ0EC1H30J B 24.6/10.6 C262 4030017420 S.CER EGJ0EC1H470J B 22.6/5.5 C472 4030017420 S.CER EGJ0EC1H470J B 22.6/5.5 C262 4030017420 S.CER EGJ0EC1H470J B 22.6/5.5 C262 4030017420 S.CER EGJ0EC1H470J B 22.6/5.5 C262 4030017420 S.CER EGJ0EC1H470J B 22.6/5.5 C263 4030017420 S.CER EGJ0EC1H470J B 22.6/5.5 C264 4030017460 S.CER EGJ0EC1H470J								4030017580	S.CFR	ECJ0ECTH000C ECJ0EB1F102K		
C258								4030017460	S.CER	ECJ0EB1E102K		
C260	C258	4030016790	S.CER	ECJ0EB1C103K		13.7/19.2	C470	4030017420	S.CER	ECJ0EC1H470J		25.5/10.6
C261 4030017420 S.CER ECJ0EC1H470J B 13.6/17.2 C473 4030017420 S.CER ECJ0EC1H470J B 22.6/5.5 C262 4030017420 S.CER ECJ0EC1H470J B 12.9/24.8 C474 4030017400 S.CER ECJ0EC1H470J B 22.6/5.3 C264 4030017420 S.CER ECJ0EC1H470J B 2.5/6.4 C500 4030017300 S.CER ECJ0EC1H470J B 21.1/29.7 C265 4030017420 S.CER ECJ0EC1H470J B 2.5/6.4 C500 4030017300 S.CER ECJ0EC1H050B T 31.7/3.5 C303 4030017400 S.CER ECJ0EC1H180J T 16.8/39.5 C502 4030017400 S.CER ECJ0EC1H180J T 27.6/33.6 C302 403001760 S.CER ECJ0EC1H180J T 17.7/39.4 C504 4030017400 S.CER ECJ0EC1H040B T 22.1/32.3 C304 4030017760 S.CER ECJ0EC1H220J T 17.7/37												
C262 4030017420 S.CER ECJ0EC1H470J T 1.4/6.4 C474 4030017460 S.CER ECJ0EB1E102K B 22.6/7.3 C263 4030017420 S.CER ECJ0EC1H470J B 12.9/24.8 C475 4030017380 S.CER ECJ0EB1E471K B 21.1/29.3 C265 4030017420 S.CER ECJ0EC1H470J B 8/24.6 C500 4030017380 S.CER ECJ0EC1H050B T 31.7/33.5 C300 4030017340 S.CER ECJ0EC1H470J T 16.8/39.5 C501 4030017380 S.CER ECJ0EC1H050B T 27.6/33.2 C301 4030017390 S.CER ECJ0EC1H180J T 17.7/39.4 C504 4030017460 S.CER ECJ0EC1H040B T 27.3/32.7 C303 4030017640 S.CER ECJ0EC1H390J T 17.7/37.8 C504 4030017460 S.CER ECJ0EC1H040B T 23.1/32.3 C304 4030017600 S.CER ECJ0EC1H390J T 17.7/												
C263 4030017420 S.CER ECJ0EC1H470J B 12.9/24.8 C475 403001730 S.CER ECJ0EC1H470J B 2.5/6.4 C500 4030017420 S.CER ECJ0EC1H470J B 2.5/6.4 C500 4030017430 S.CER ECJ0EC1H470J B 8/24.6 C501 4030017460 S.CER ECJ0EC1H470J B 8/24.6 C501 4030017460 S.CER ECJ0EC1H180J T 28/37.2 C301 4030017390 S.CER ECJ0EC1H180J T 19.9/39.7 C502 4030017390 S.CER ECJ0EC1H180J T 27.3/32.7 C302 4030017670 S.CER ECJ0EC1H180J T 17.7/39.4 C504 4030017460 S.CER ECJ0EC1H040B T 27.3/32.7 C303 4030017670 S.CER ECJ0EC1H20J T 19.9/37.9 C506 4030017460 S.CER ECJ0EB1E102K T 29.1/31.3 C305 403001760 S.CER ECJ0EC1H220J T 25.7/38.1 C506 403												
C265 4030017420 S.CER ECJ0EC1H470J B 8/24.6 C501 4030017460 S.CER ECJ0EB1E102K T 28.8/37.2 C301 4030017390 S.CER ECJ0EC1H180J T 16.8/39.5 C502 4030017390 S.CER ECJ0EC1H180J T 27.6/332.7 C302 4030017390 S.CER ECJ0EC1H150J T 19.9/38.8 C503 4030017460 S.CER ECJ0EC1H040B T 27.3/32.7 C303 4030017390 S.CER ECJ0EC1H390J T 19.9/38.8 C505 4030017460 S.CER ECJ0EC1H040B T 27.3/32.7 C304 4030017380 S.CER ECJ0EC1H20D T 19.9/37.8 C505 4030017460 S.CER ECJ0EB1E102K T 29.1/31.3 C305 4030017390 S.CER ECJ0EC1H220J T 19.9/37.9 C507 4030017460 S.CER ECJ0EB1E102K T 28.6/37.2 C305 4030017650 S.CER ECJ0EC1H270J T 25	C263	4030017420	S.CER	ECJ0EC1H470J	В	12.9/24.8	C475	4030017730	S.CER	ECJ0EB1E471K	В	21.1/29.7
C300												
C301 4030017390 S.CER ECJ0EC1H180J T 19.9/39.7 C503 4030017460 S.CER ECJ0EC1H040B T 32.1/32.7 C503 4030017670 S.CER ECJ0EC1H390J T 19.9/38.8 C505 4030017460 S.CER ECJ0EC1H040B T 32.1/32.3 C504 4030017460 S.CER ECJ0EC1H040B T 32.1/32.3 C504 4030017460 S.CER ECJ0EC1H040B T 32.1/32.3 C505 4030017460 S.CER ECJ0EC1H040B T 29.1/31.3 C506 4030017460 S.CER ECJ0EC1H040B T 28.6/30 C507 4030017460 S.CER ECJ0EC1H040B T 28.6/30 C507 4030017460 S.CER ECJ0EC1H040B T 28.7/29.1 C507 4030017460 S.CER ECJ0EC1H180J T 28.7/29.1 C508 4030017460 S.CER ECJ0EC1H180J T 28.7/29.1 C510 4030017350 S.CER ECJ0EC1H180J T 28.7/29.1 C510 4030017360 S.CER ECJ0EC1H180J T 28.7/29.3 C510 4030017460 S.CER ECJ0EC1H180J T 28.7/27.3 C510 4030017460 S.CER ECJ0EC1H120J T 28.7/27.3 C510 4030017460 S.CER ECJ0EC1H120J T 28.7/27.3 C510 4030017460 S.CER ECJ0EC1H120J T 28.6/17.7 C514 4030017460 S.CER ECJ0EC1H120J T 28.6/17.7 C514 4030017460 S.CER ECJ0EB1E102K T 28.6/17.7 C514 4030017460 S.CER ECJ0EB1E102K T 28.6/19.5 C515 4030017460 S.CER ECJ0EB1E102K T 28.6/19.5 C516 4030017460 S.CER ECJ0EB1E102K T 28.6/19.5 C516 4030017460 S.CER ECJ0EB1E102K												
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C305 4030017400 S.CER ECJ0EC1H220J T 19.9/37.9 C507 4030017460 S.CER ECJ0EB1E102K T 30.1/28 C307 4030017420 S.CER ECJ0EC1H470J T 25.7/38.1 C508 4030017460 S.CER ECJ0EB1E102K T 28/24.3 C308 4030017420 S.CER ECJ0EC1H470J T 25.2/36.7 C509 4030017390 S.CER ECJ0EC1H180J T 28.7/29.1 C309 4030017690 S.CER ECJ0EC1H121J T 24.8/35.5 C511 4030017390 S.CER ECJ0EC1H180J T 31/28 C310 4030017400 S.CER ECJ0EC1H220J T 23.2/35.5 C511 4030017390 S.CER ECJ0EC1H180J T 28/23.4 C311 4030017400 S.CER ECJ0EB1E102K B 24.6/37.6 C512 4030017400 S.CER ECJ0EC1H180J T 27.9/27.3 C312 4030017400 S.CER ECJ0EB1E102K T 19/35.7 </td <td></td>												
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C310 4030017400 S.CER EGJ0EC1H220J T 23.2/35.5 C512 4030017440 S.CER EGJ0EC1H221J T 27.9/27.3												
C311 4030017460 S.CER ECJ0EB1E102K B 24.6/37.6 C513 4030017460 S.CER ECJ0EB1E102K T 28/20.4 C312 4030017380 S.CER ECJ0EC1H050B T 19/35.7 C514 4030017630 S.CER ECJ0EC1H120J T 30.8/21.4 C313 4030017460 S.CER ECJ0EB1E102K T 28.6/17.7 C314 4030017460 S.CER ECJ0EB1E102K T 28.6/17.7 C516 4030017460 S.CER ECJ0EB1E102K T 28.6/19.5		4030017690	S.CER	ECJUECTHT21J FCJ0FC1H220J				4030017390	S.CER	ECJ0EC1H180J FCJ0FC1H221J		
C312 4030017380 S.CER ECJ0EC1H050B T 19/35.7 C514 4030017630 S.CER ECJ0EC1H120J T 30.8/21.4 C313 4030016790 S.CER ECJ0EB1C103K T 13.4/38.5 C515 4030017460 S.CER ECJ0EB1E102K T 28.6/17.7 C314 4030017460 S.CER ECJ0EB1E102K T 28.6/19.5								4030017460	S.CER	ECJ0EB1E102K		
C314 4030017460 S.CER ECJ0EB1E102K T 14.3/38.5 C516 4030017460 S.CER ECJ0EB1E102K T 28.6/19.5	C312	4030017380	S.CER	ECJ0EC1H050B	Т	19/35.7	C514	4030017630	S.CER	ECJ0EC1H120J	Т	30.8/21.4
M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)	C314	4030017460	S.CER	ECJ0EB1E102K	ľ	14.3/38.5	_	-				

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2009077830 SCERE ELOCECHIMODIS B. 200907780 SCERE ELOCECHIMODIS B. 200907790 SCE	<u>lke o</u>	ואו ו					[RF U	וואוין				
030077460 CORP. CALLED THIS ALL OF STATE AND ADDRESS OF PERSONS PLANE (1997) CORP. CALLED THIS ALL OF PERSONS PLANE (1997)				DESCRIPTION	M.					DESCRIPTION	М.	
2019 200917460 SCRP ELGERHETION T SOMETIME T SOMET			S CFR	FCJ0FC1H150J	T		C822		S.MLR	ECPU1C104MA5	Т	
Sept	C518											
2009/1766 Care C	C519				Т	31.7/35.3						15.6/17.8
1.000077500 C.C.	C600											
2000017460 Company C												
Color Colo												
200001790 S.CER ELGUESTICON B 24.792 C885												
2008 1908 3.00017360 3.00017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.000017460 3.0000017460 3.0000017460 3.0000017460 3.0000017460 3.0000017460 3.0000017460 3.0000000000000000000000000000000000	C606						C835	4030017460	S.CER	ECJ0EB1E102K	В	
2000077500 Color Eccide Chinego 6 26,297.3 Color C	C607	4030017460	S.CER	ECJ0EB1E102K				4550007680	S.TAN	TEESVP 0J 226M8R		
1989 1989	C608											
0980077980 S.CER E.C.DEC-1H0508 B 23725 C 2400077400 S.CER E.C.DEC-1H0700 B 887197 C 2400077400 S.CER E.C.DEC-1H0700 T 107726 C 2400077400 S.CER E.C.DEC-1H0700 T 107726 C 2400077400 S.CER E.C.DEC-1H0700 T 14,0411 C 2400077400 S.CER E.C.DEC-1H0700 T 2400077400 S.CER												
1977 1978 1979												
03900 7980 SCER ELONGETHISOL B. 28.282.5 CRES 400007780 SCER ELONGETHISON T. 1.40113 T. 1												
2007 2007	C613											
080017860 S.CEP EQUEBLE TOX B 24.914.6 C 24.0001780 S.CEP EQUEBLE TOX B 24.916.6 C 24.0001780 S.CEP EQUEBLE TOX B 24.916.6 C 24.0001780 S.CEP EQUEBLE TOX B 22.918.6 C 24.0001780 S.CEP EQUEBLE TOX B 24.918.7 C 24.0001780 S.CEP EQUEBLE TOX B 24.918.6	C614					26.5/23.5						
0.00017960 S.CEP C.QUEBIETION B 24.415.3 C.00017970 S.CEP C.QUEBIETION B 2.4415.3 C.00017970 S.CEP C.QUEBIETION B 2.4416.3 C.00017970 S.CEP C.QUEBIETION B 2.4215.3 C.00017970 S.CEP C.QUEBIETION B 2.21516. C.00017970 S.CEP C.QUEBIETION B 2.215173 C.00	C615											
1												
0.6919												
0.80017460 S.CEP G.QUEDELTONC B 23.219.6 C.0001 400001760 S.CEP G.QUEDELTONC B 18.916.7 C.0001 400001740 S.CEP G.QUEDELTONC B 18.916.7 C.0001 400001740 S.CEP G.QUEDELTONC B 17.916.2 C.0001 400001740 S.CEP G.QUEDELTONC B 20.916.2 C.00001740 S.CEP G.QUEDELTONC B 20	C619											
0.6022 4000077840 S.CER ECJUECHHISDJ B 21.912.8	C620							4030016790	S.CER	ECJ0EB1C103K		
0.000017360 S.CER ECLIDECHHO010 B 17.915.2 0.0004 400017460 S.CER ECLIDECHISOL B 20.98.2 0.	C621											
0.000017460 S.CER EC.UBEET100X												
0.6286 0.400017450 S.CER ECJ0EB15102K B 21.810.8 CS07 4930017440 S.CER ECJ0EC114731 B 23.114.3 CS08 CS08 400017550 S.CER ECJ0EC114731 B 23.114.3												
05890 4000017950 S.CER E.G.BECHIPIDOL B 30,4972 C909 4000017950 S.CER E.G.BECHIPTOL B 22,411.19 C909 4000017950 S.CER E.G.BECHIPTOL B 22,411.19 C909 4000017950 S.CER E.G.BECHIPTOL B 22,411.19 C909	C627											
0.6331 40500017400 SCER ECUBECHH090C B 29.1937.3 C911 4050017420 SCER ECUBESH140HK T 12.1266 C951 4050017430 SCER ECUBESH140HK T 12.1261 C951 4050017430 SCER ECUBESH140HK T 12.1261 C951 C951 4050017430 SCER ECUBESH140HK T 12.1261 C951 C9	C630							4030017650	S.CER	ECJ0EC1H270J	В	18/9.5
0.6584 0.650017420 0.5000 0.65000 0.6500017650 0.5000017650 0.5000017650 0.5000017650 0.5000017650 0.50000017650 0.5000017650 0.50000017650 0.50000017650 0.500000000000000000000000000000000	C631											
0.6591 0.659017/350 S.CER E.OLIGE CHIPO20B B 28.9427 C 260 260 C 260 260 C 260	C633											
0.6851 0.400017303 S.CER ECUBECHHI20J B 33.1/22 C 0.982 0.400017303 S.CER CUBECHH008B B 3.002.27 C 0.981 0.400017303 S.CER CUBECHH008B B 3.002.27 C 0.981 0.400017303 S.CER CUBECHH008B B 3.002.27 C 0.981 0.400017303 S.CER CUBECHH008B B 27.97191 C 0.982 0.400017303 S.CER CUBEBH100K T 11.476.32 C 0.982 0.400017303 S.CER CUBEBH100K T 11.476.32 C 0.982 0.400017303 S.CER CUBEBH100K T 11.476.32 C 0.985 0.400017303 S.CER CUBEBH100K T 11.476.32 C 0.40001730 S.CER CUBEBH100K T 1.476.32 C 0.40001730 S.												
Month Mont												
06854 0409017360 S.CER ECJ0ECH14020B B 30,321.5 C981 0409017460 S.CER ECJ0ECH14030 B 30,321.5 C982 0409017460 S.CER ECJ0ECH14030 B 34,721.8 C983 0409017460 S.CER ECJ0ECH14030 B 34,721.8 C983 0409017460 S.CER ECJ0ECH14030 B 32,319.2 C985 0409017460 S.CER ECJ0ECH14030 B 34,493.5 C1002 0409017460 S.CER ECJ0ECH14030 B 34,493.5 C	C652											
0.685 4030017460 S.CER EQUECHHOSOB B 34.721.8 C.986 4030017460 S.CER EQUECHHOSOB B 22.9191.1 C.984 4030017460 S.CER EQUECHHOSOB B 22.9191.1 C.985 4030017460 S.CER EQUECHHOSOB B 22.9192.1 C.986 4030017460 S.CER EQUECHHOSOB B 28.517.9 C.986 4030017460 S.CER EQUECHHOSOB B 28.517.9 C.986 4030017470 S.CER EQUECHHOSOB B 28.517.9 C.986 4030017470 S.CER EQUECHHOSOB B 31.017.2 C.986 4030017470 S.CER EQUECHHOSOB B 31.017.2 C.986 4030017470 S.CER EQUECHHOSOB B 31.017.2 C.1002 403001740 S.CER EQUECHHOSOB B 34.811.8 C.1006 403001740 S.CER EQUECHHOSOB B 34.811.8 C.1006 403001740 S.CER EQUECHHOSOB B 22.513.2 C.1006 403001740 S.CER EQUECHHOSOB B 22.513.2 C.1006 403001740 S.CER EQUECHHOSOB B 22.513.2 C.1006 403001740 S.CER EQUECHHOSOB B 27.88.7 C.1006 403001740 S.CER EQUECHHOSOB B 3.501.1 C.1006 403001740 S.CER EQUECHHOSOB B 3.501.2 C.1006 403001740 S.CER EQUECHHOSOB B 3.601.2 C.1006 403001740 S.CER EQUECHHOSOB B	C653				В							10.3/29
0.685	C654											
C685 4030017460 S.CER E.OLEBIETIO2K B 28.5/17.9 C966 A030016790 S.CER E.OLEBIETIO2K B 28.5/16.1 C966 A030016790 S.CER E.OLEBIETIO2K B 28.5/16.1 C966 A030016790 S.CER E.OLEBIETIO2K B 28.5/16.1 C1000 A030016790 S.CER E.OLEBIETIO2K B 28.5/16.1 C1000 A030016780 S.CER E.OLEBIETIO2K B 32.9/19.2 C1003 A030017400 S.CER E.OLEBIETIO2K B 33.9/12.7 C1003 A030017400 S.CER E.OLEBIETIO2K B 34.12.8 C1003 A030017400 S.CER E.OLEBIETIO2K B 36.6/12.3 C1003 A030017400 S.CER E.OLEBIETIO2K B 34.12.8 C1003 A030017400 S.CER E.OLEBIETIO2K B 34.12.8 C1003 A030017400 S.CER E.OLEBIETIO2K B 34.12.8 C1003 A030017400 S.CER E.OLEBIETIO2K B 34.12.9 S.CER E.OLEBIETIO2K B 34.												
C689 4030017460 S.CER E.QUEBIE102K B 28.5/16.1 C987 C986 4030017460 S.CER E.QUEBIE102K B 28.5/17 C1000 C987 C9												
C669 4030017460 S.CER E.QUEBIE102K B 28.5/16.1 C1000 C10004												
C660	C659											
C6864 4030017440 S.CER ECJ0EC1H100DB B 31.173 C1003 4030017460 S.CER ECJ0ECH100DB B 31.173 C1005 4030017460 S.CER ECJ0ECH100DB B 31.173 C1005 4030017460 S.CER ECJ0ECH100DB B 34.811.8 C1005 4030017460 S.CER ECJ0ECH100DB B 34.811.8 C1005 4030017460 S.CER ECJ0ECH100DB B 34.811.8 C1005 4030017460 S.CER ECJ0ECH100DB C1005 4030017460 S.CER ECJ0ECH100DB C1005 C1005 4030017460 S.CER ECJ0ECH100DB C1005 C1005 4030017460 S.CER ECJ0ECH102DK T 30.665.2 C1006 C1007 4030017460 S.CER ECJ0ECH102DK T 4030017460 S.CER ECJ0ECH101DJ T 4030017460	C660											
C686 4030017540 S.CER EGJ0ECH1150J B 31.1/132 C1004 4030017460 S.CER EGJ0EB1E102K T 30.66.5 C667 4030017460 S.CER EGJ0EB1E102K T 30.66.5 C1007	C662											
C666 4030017460 S.CER EJJ0EB1F102K B 30.4/9.5 B 34.8/1.8 C1005 4030017460 S.CER EJJ0EB1F102K T 30.6/s.6 C1007 4030017460 S.CER EJJ0EB1F102K T 26.6/5.5 C171 4030017460 S.CER EJJ0EB1F102K T 26.6/5.5 C1704 4030017460 S.CER EJJ0EB1F102K T 44.7/12.2 C1704 4030017460 S.CER EJJ0EB1F102K T 47.7/12.2 C1704 4												
Corr												
C668								4030017460	S.CER	ECJ0EB1E102K		
C672 4030017460 S.CER ECJOECHH21J T 26.6/s.5 4300017460 S.CER ECJOECHH050B B 3.5/31.1 C1008 4030017460 S.CER ECJOECHH050B B 3.5/31.1 C1008 4030017460 S.CER ECJOECHH050B B 3.5/31.1 C1008 4030017460 S.CER ECJOECHH050B B 1.7/34.9 B 2/33.7 C1008 4030017460 S.CER ECJOECHH050B B 1.7/34.9 B 2/33.7 C1008 4030017460 S.CER ECJOECHH030B B 1.6/27.6 A030017460 S.CER ECJOECHH070J B 1.6/27.6 A030017460 S.CER ECJOECHH00C B 1.6/27.6 B 1.6/27.6 B 1.6/27.6 A030017460 S.CER ECJOECHH00C B 1.8/13.6 B 1.6/27.6 B 1.6	C668						C1007	4510004630	S.ELE	ECEV1CA100SR		ı
C7010 4030017480 S.CER ECJ0EB1E102K B 4.1/33.7 C702 4030017480 S.CER ECJ0EB1E102K B 1.7/34.9 B 1.7/34.9 C703 4030017480 S.CER ECJ0EB1E102K B 1.7/34.9 B 1.7/34.9 C703 4030017480 S.CER ECJ0EB1E102K B 1.7/34.9 B 1.1/29 A030017480 S.CER ECJ0EB1E102K B 1.8/27.6 A030017480 S.CER ECJ0ED1H470J B 5.6/22.5 EP102 A030017480 S.CER ECJ0ED1H178B B 8.6/19.5 EP102 A030017480 S.CER ECJ0ED1H270J B 7.5/16.7 EP102 A030017480 S.CER ECJ0EB1E102K B 8.6/19.7 EP100 A030017490 S.CER ECJ0EB1E102K B 3.2/25 A	C671										Т	44.7/12.2
C7012 4030017460 S.CER ECJUECHH050B B 3.5/31.1 1.7/34.9								4510008540	S.ELE		_	44.7/40.0
C702							C1008	4030017460	SCER			
C703							101000	4000017400	O.OLII	LOUGEDTE TOZIK	l '	00.0/0.0
C704 4030017360 S.CER EC.JOECHH270J B 1.6/25 S.CER EC.JOECHH303B B 1.6/27 S.CER 4030017460 S.CER EC.JOEBHE102K B 3.6/29.9 S.CER 4030017460 S.CER EC.JOEBHE102K B 5.6/22.5 S.CER EC.JOECHH470J B 5.6/22.5 S.CER EC.JOECHH470J B 5.6/22.5 S.CER EC.JOECHH270J B 4.5/17.5 EP102 S.CER EC.JOECHH270J B 4.5/17.5 EP103 S.CER EC.JOECHH270J B 7.5/16.7 EP104 S.CER EC.JOECHH270J B 4.5/16.6 EP104 EP104 S.CER EC.JOECHH270J B 4.5/16.6 EP104 EP104 S.CER EC.JOECHH50J B 10.2/16.7 EP105 S.CER EC.JOECHH50J B 10.2/16.7 EP105 S.CER EC.JOECHH50J B 10.2/16.7 EP105 EP105 S.CER EC.JOECHH50J B 10.2/16.7 EP105 EP1001 E												ı
C706	C704				В	1.1/29					Т	15.9/18
A030017460 S.CER ECJ0EB1E102K B 1.626	C705										_	
\$\frac{\text{C708}}{\text{c709}} \ \ \frac{\text{4030017420}}{\text{c709}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							31001	6510022860	S.CNR	AXK6S30445P	'	21.9/9.1
C709												ı
C710							EP100	6910014730	S.BEA	MPZ2012S331A-T	Т	34.5/19.7
C711	C710	4030017650	S.CER	ECJ0EC1H270J			EP102	6910015370	S.BEA	ACZ1005Y-102-T	Т	43.9/37.2
C714	C711	4030017550	S.CER	ECJ0EC1H1R5B								
C715 4030017640 S.CER ECJ0EC1H150J B 10.2/16.7 B 8.6/13.7 EP1000 EP1001												
C716												
C717	C716											
C718	C717						EP1002	6910014730	S.BEA	MPZ2012S331A-T	Т	29.2/5.8
C721 4030017460 S.CER ECJ0EB1E102K T 7/7	C718	4030017620	S.CER	ECJ0EC1H100C		11.8/13.6					В	15.9/4.5
C722	C720											, I
C724												, I
C725												, I
C802 4030017460 S.CER ECJ0EB1E102K B 32.2/8.1 C803 4030017460 S.CER ECJ0EB1E102K B 32.9/9 C804 4030017460 S.CER ECJ0EB1E102K B 32.9/9 C806 4030017460 S.CER ECJ0EB1E102K B 35.6/16.7 C807 4030016790 S.CER ECJ0EB1C103K T 19.2/25.9 C809 4030016790 S.CER ECJ0EB1C103K T 20.4/25.5 C810 4030017430 S.CER ECJ0EB1C103K T 17.1/25.4 C811 4030016790 S.CER ECJ0EB1C103K T 17.1/26.3 C812 4030016790 S.CER ECJ0EB1C103K T 17.1/26.3 C814 4030017430 S.CER ECJ0EB1C103K T 17.1/21.9 C813 4030017430 S.CER ECJ0EB1C103K T 15.7/23.2 C814 4550007680 S.TAN TEESVP 0J 226M8R T 15.7/23.2 C818 4030017430 S.CER ECJ0EC1H101J T 20.3/19.3 C819 4030017430 S.CER ECJ0EC1H101J T 20.3/19.3 C819 4030017400 S.CER ECJ0EB1E102K T 9.5/21.8 C820 4550006910 S.TAN TEESVP 1C 334M8R T 9.5/21.8	C725											, I
C804	C802	4030017460	S.CER	ECJ0EB1E102K	В	32.2/8.1						, I
C806	C803											, I
C807	C804											, I
C808												, I
C809												, I
C810	C809											, I
C812 4030016790 S.CER ECJ0EB1C103K T 18/21.8 C813 4030017430 S.CER ECJ0EC1H101J T 17.1/21.9 C814 45500067680 S.TAN TEESVP 0J 226M8R T 15.7/23.2 C818 4030017430 S.CER ECJ0EC1H101J T 20.3/19.3 C819 4030017460 S.CER ECJ0EB1E102K T 23.9/16.3 C820 4550006910 S.TAN TEESVP 1C 334M8R T 9.5/21.8	C810	4030017430	S.CER	ECJ0EC1H101J	T							, I
C813	C811											, I
C814	C812											, I
C818 4030017430 S.CER ECJ0EC1H101J												, I
C819 4030017460 S.CER ECJ0EB1E102K												, I
C820 4550006910 S.TAN TEESVP 1C 334M8R T 9.5/21.8	C819	4030017460	S.CER	ECJ0EB1E102K								, I
C821 4550007760 S.TAN TEESVP 1A 335M8R T 7.7/21.8	C820	4550006910	S.TAN	TEESVP 1C 334M8R	Т	9.5/21.8						, I
	C821	4550007760	S.TAN	TEESVP 1A 335M8R	T	7.7/21.8						

[VCO UNIT]

[VCO UNIT]

LVCO	ONTI					LVCO	ONTI			
REF NO.	ORDER NO.		DESCRIPTION	М.	H/V LOCATION	REF NO.	ORDER NO.	DESCRIPTION	М.	H/V LOCATION
Q1	1530003560	S.TR	2SC5195-T1	Т	10.4/16.5	C1		S.CER ECJ0EB1E102K	Т	3.1/13.6
Q2	1590003280		UNR9211J-(TX)	Τ̈	4.6/15.1	C3		S.CER ECJ0EC1H121J	ΙĖ	9.1/17.9
Q51	1530003560		2SC5195-T1	Т	14/9.6	C4		S.CER ECJ0EB1C103K	T	7.9/17.6
Q52	1590003280		UNR9211J-(TX)	T	18.1/17.4	C5		S.CER ECJ0EB1C103K	T	5.5/17
Q101 Q102	1530003260 1590003280		2SC5006-T1 UNR9211J-(TX)	T	9/2.5 19/1.8	C6 C7	4030017460	S.CER ECJ0EB1E102K S.CER ECJ0EB1E102K	T	3.1/15.2 12.8/17.5
Q200	1530003260		2SC5006-T1	Ϊ́τ	8.8/10.9	C8		S.CER ECJ0EB1C103K	ΙĖ	11.9/17.5
Q201	1530003260		2SC5006-T1	Ť	3.8/3.5	C9	4030017680	S.CER ECJ0EC1H820J	Ť	8.8/16.6
202	1530003260	S.TR	2SC5006-T1	Т	5.6/11.4	C10		S.CER ECJ0EB1E102K	T	10/14.7
						C11	4030017350	S.CER ECJ0EC1H020B	Ţ	10.3/11.9
01	1750001270	SVCP	1SV325 (TPH3)	Т	3.2/18	C51 C53		S.CER ECJ0EB1E102K S.CER ECJ0EC1H330J	T	18.9/13.8 15.5/11.1
02			1SV308 (TPL3)	Τ̈́	7.1/16.3	C54		S.CER ECJ0EB1E102K	Ϊ́τ	14.7/16.4
03	1750001270	S.VCP	1SV325 (TPH3)	Ť	12.2/15.5	C55	4030017460	S.CER ECJ0EB1E102K	Ť	17.5/15.7
D4	1750000940		ISS400 TE61	T	12.8/18.9	C56		S.CER ECJ0EB1E102K	T	19.6/17.7
D5 D6			1SV325 (TPH3) 1SV325 (TPH3)	T	4.4/17.3 12.2/14.3	C57 C58		S.CER ECJ0EB1E102K S.CER ECJ0EB1E102K	T	12.3/9.3 14.9/8
D51			HVC376BTRF-E	Ϊ́	16.5/14.2	C59		S.CER ECJ0EC1H270J	Ϊ́τ	13.9/11.1
052			MA2S077-(TX)	Ť	14.6/17.7	C60		S.CER ECJ0EC1H470J	Ť	13.4/12.3
053	1750000940	S.DIO	ISS400 TE61	Т	12.4/7.4	C61	4030017520	S.CER ECJ0EC1H0R3B	Т	12.3/11.1
			1SV325 (TPH3)	T	15.6/12.4	C62		S.CER ECJ0EB1A104K	Ţ	19.8/11.8
D55 D100			1SV286 (TPH3) 1SV286 (TPH3)	T	17.4/10.6 17.4/1.6	C63 C101		S.CER ECJ0EC1H0R5B S.CER ECJ0EB1E102K	T	16.4/11.1 15.9/1.5
D100			HVC375BTRF-E	Ϊ́	12.2/2.2	C101		S.CER ECJ0EC1H560J	Ϊ́τ	15.9/1.5
D102	1790001260		MA2S077-(TX)	Ť	16.8/5.4	C103		S.CER ECJ0EC1H100C	ΙĖ	10.8/1.1
D103			ISS400 TE61	Т	7.4/1.6	C104		S.CER ECJ0EB1E102K	T	14/6.5
0104	1750000721	S.VCP	HVC375BTRF-E	Т	13.9/3.1	C105		S.CER ECJ0EB1E102K	Ţ	17.8/4.4
						C106 C107		S.CER ECJ0EB1E102K S.CER ECJ0EB1E102K	T	19.8/4.5 7.2/4.7
.2	6200011650	S COL	LQW18AN68NG00D	Т	6.8/18.3	C107		S.CER ECJ0EB1E102K	+	8.1/4.7
.3			LQW18ANR15G00D	Ť	5/19.1	C109		S.CER ECJ0EC1H180J	Ť	10.5/2.5
.52			LQW18AN22NG00D	Т	14.7/13.9	C110		S.CER ECJ0EC1H050B	T	10.2/4.7
.53			LQW18AN24NG00D	T	14.7/15.1	C111		S.CER ECJ0EC1H020B	Ţ	10.7/6.8
.101 .102			ELJRF R10JFB LQW18AN5N6C00D	T	7.6/3.5 12.3/4.7	C112 C114		S.CER ECJ0EC1H0R5B S.CER ECJ0EB1E102K	T	12.5/1.1 18/8.6
102			LQW18AN9N1D00D	Ϊ́τ	14.1/5.4	C115		S.CER ECJ0EB1A104K	Ϊ́τ	18.9/8.6
200			ELJRF 82NJFB	Ť	2.3/1.5	C116		S.CER ECJ0EB1E102K	Ϊ́Τ	19.8/7.7
201	6200011021	S.COL	ELJRF 82NJFB	Т	4/11.9	C117	4030018860	S.CER ECJ0EB0J105K	Т	19.8/15
202			ELJRF 8N2JFB (8.2)	T	3.6/10.1	C118	4030017640	S.CER ECJ0EC1H150J	Ţ	10.2/3.8
.203 .204			ELJRF 12NJFB ELJRF 6N8JFB (6.8)	T	4.1/1.5 6.3/5	C200 C201		S.CER ECJ0EB1E102K S.CER ECJ0EB1E102K	T	8.4/12.9 9.1/8.2
.204	0200007901	3.COL	ELJHF GNOJFB (0.0)	'	0.3/3	C202		S.CER ECJ0EB1E102K	Ϊ́τ	2.4/5.6
						C203	4030017460	S.CER ECJ0EB1E102K	T	2.3/4.4
31			ERJ2GEJ 473 X (47 k)	T	6.2/15	C204		S.CER ECJ0EB1E102K	T	5.3/5.5
R2 R3			ERJ2GEJ 222 X (2.2 k) ERJ2GEJ 470 X (47)	T	8/15 10.7/18.8	C205 C206		S.CER ECJ0EB1E102K S.CER ECJ0EB1E102K	T	3.2/1.5 5.6/12.9
no R4			ERJ2GEJ 470 X (47) ERJ2GEJ 103 X (10 k)	Ϊ́	10.7/16.6	C206		S.CER ECJ0EB1E102K	+	7.2/10.5
?5	7030005050	S.RES	ERJ2GEJ 103 X (10 k)	Ť	9.1/18.8	C208		S.CER ECJ0EB1E102K	Ϊ́Τ	3.1/11.9
36	7030005710	S.RES	ERJ2GEJ 121 X (120)	Т	10/13.8	C209	4030017380	S.CER ECJ0EC1H050B	T	3.3/8.3
37			ERJ2GEJ 104 X (100 k)	T	11.6/12.4	C210		S.CER ECJ0EC1H050B	Ţ	2.4/8.3
R8 R9			ERJ2GEJ 102 X (1 k) ERJ2GEJ-JPW	T	2.8/16.4 11.6/13.3	C211 C213		S.CER ECJ0EC1H030B S.CER ECJ0EC1H070C	T	2.7/10.1 5.5/2.7
R10			ERJ2GEJ 222 X (2.2 k)	Ϊ́τ	7.1/15	10213	4030017390	3.0211 2030201110700	'	3.3/2.7
R50			ERJ2GEJ 102 X (1 k)	Ť	17.5/13.9					
R51			ERJ2GEJ 473 X (47 k)	Т	16.5/17.2	J1	6510025380	S.CNR AXK716147G	В	4.8/10
R52			ERJ2GEJ 222 X (2.2 k)	T	15.6/16.4					
R53 R54			ERJ2GEJ 470 X (47) ERJ2GEJ 822 X (8.2 k)	T	12.8/8.4 15.5/9.5					
R55			ERJ2GEJ 103 X (10 k)	Τ̈́	16.4/9.5					
R56			ERJ2GEJ 151 X (150)	Т	12.3/10.2					
158			ERJ2GEJ 273 X (27 k)	T	18.9/11.8					
R59 R60			ERJ2GEJ 273 X (27 k) ERJ2GEJ 222 X (2.2 k)	T	19.8/10.2 13.8/16.4					
160			ERJ2GEJ 225 X (2.2 M)	Ť	19.8/13.4					
162			ERJ2GEJ 104 X (100 k)	Т	17.7/12.7					
R100			ERJ2GEJ 102 X (1 k)	Т	14.3/1.5					
1101			ERJ2GEJ 473 X (47 k)	T	17.9/6.5					
1102 1104			ERJ2GEJ 222 X (2.2 k) ERJ2GEJ 332 X (3.3 k)	T	15.6/6.5 9.2/1					
1105			ERJ2GEJ 103 X (10 k)	Τ̈́	9/4.7					
106			ERJ2GEJ 221 X (220)	Ť	10.2/5.6					
107	7030005090	S.RES	ERJ2GEJ 104 X (100 k)	Т	18.2/7.4					
108			ERJ2GEJ 225 X (2.2 M)	T	16.6/7.4					
109 110			ERJ2GEJ 392 X (3.9 k) ERJ2GEJ 153 X (15 k)	T	16.6/8.3 18.9/10.2					
1111			ERJ2GEJ 102 X (1 k)	Ť	15.2/3.3					
1112			ERJ2GEJ 222 X (2.2 k)	Т	16.6/4.1					
1113			ERJ2GEJ 472 X (4.7 k)	T	20.2/16.2					
1114			ERJ2GEJ-JPW	T	19.4/3.4					
1115 1116	7030010040 7030004980		ERJ2GEJ-JPW ERJ2GEJ 101 X (100)	Т	17.8/3.4					
. 1 10	, 000004300	0.1163	[USA-1] only	Т	10/8.2					
R200			ERJ2GEJ 181 X (180)	Т	7.5/13.2					
3201			ERJ2GEJ 683 X (68 k)	T	9.5/9.4					
202			ERJ2GE J 830 X (15)	T	8.9/7					
	700000000	LOKES	ERJ2GEJ 820 X (82)	T	7.7/8.2	1				
					7 3/7					
204	7030005570	S.RES	ERJ2GEJ 820 X (82)	T	7.3/7 2.1/2.7					
R203 R204 R205 R206	7030005570 7030004970 7030005060	S.RES S.RES S.RES	ERJ2GEJ 820 X (82) ERJ2GEJ 470 X (47) ERJ2GEJ 333 X (33 k)	T T	7.3/7 2.1/2.7 5.3/3.9					
R204 R205	7030005570 7030004970 7030005060 7030004970	S.RES S.RES S.RES S.RES	ERJ2GEJ 820 X (82) ERJ2GEJ 470 X (47)	Т	2.1/2.7					

• UT-121 (Optional product; [CODEC UNIT] for IC-91AD)

[MAIN UNIT]

[MAIN UNIT]					
REF NO.	ORDER NO.		DESCRIPTION	М.	H/V LOCATION
IC1 IC101 IC102 IC201 IC202 IC203 IC300 IC301 IC350	1180002371 1130010920 1130011930 1130012511 1110005430 1130011801 1110005290 1110005290 1130011631	S.REG S.IC S.IC S.IC S.IC S.IC S.IC S.IC S.IC	R1111N321B-TR-F AMBE-2020 SN74LVC1G04DCKR SN74AHC2G74HDCT3 CMX589AD5 SN74AHC1G66HDBV3 NJM2115V-TE1 NJM2115V-TE1 AD73311ARSZ	B T B B B B T	30.6/13.6 25.4/10.7 29.9/17.3 18.4/10.5 6.3/13.4 6.1/11.7 17.5/3.5 5.6/16.6 5.9/4.7
Q1 Q2 Q50 Q51 Q100 Q200 Q201 Q202	1510000581 1590003280 1510000581 1590001170 1530002280 1590003390 1590003390 1530002280	S.TR S.TR S.TR S.TR S.TR S.TR S.TR S.TR	2SA1362-GR (TE85R F) UNR9211J-(TX) 2SA1362-GR (TE85R F) XP1501-(TX) AB 2SC4081 T106 S UNR9215J-(TX) UNR9215J-(TX) UNR9215J-(TX) 2SC4081 T106 S	T T B B B B B B	15.2/2.7 18/2.2 26.1/7.9 28/3.7 26.3/17.3 11.3/13.7 9.3/13.7 19.5/13.7
D100	1790001240	S.DIO	MA2S728-(TX)	Т	26.9/1.6
X100 X200	6050012290 6050012300	S.XTL S.XTL	CR-820 (16.384 MHz) CR-821 (9.8304 MHz)	B B	25.3/13.9 15.7/16.6
R1 R2 R3 R50 R100 R1004 R105 R107 R108 R109 R202 R203 R204 R205 R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R217 R300 R301 R301 R301 R302 R303 R304 R305 R305 R305 R305 R351 R352 R353 R353 R353 R354	703000180 7030005240 7030005240 7030005240 7030005120 7030005120 7030005120 7030005240	S.RES S.RES	ERJ2GEJ 103 X (10 k) ERJ2GEJ 472 X (4.7 k) ERJ2GEJ 472 X (4.7 k) ERJ2GEJ 102 X (1 k) ERJ2GEJ 331 X (330) ERJ2GEJ 101 X (100) ERJ2GEJ 102 X (1 k) ERJ2GEJ 102 X (1 k) ERJ2GEJ 104 X (100 k) ERJ2GEJ 104 X (100 k) ERJ2GEJ 221 X (220) ERJ2GEJ-JPW ERJ2GEJ 473 X (47 k) ERJ2GEJ 104 X (100 k) ERJ2GEJ 373 X (47 k) ERJ2GEJ 104 X (100 k) ERJ2GEJ 104 X (100 k) ERJ2GEJ 105 X (47 k) ERJ2GEJ 106 X (100 k) ERJ2GEJ 107 X (100 k) ERJ2GEJ 108 X (100 k) ERJ2GEJ 109 X (100 k) ERJ2GEJ 109 X (100 k) ERJ2GEJ 103 X (10 k) ERJ2GEJ 103 X (10 k) ERJ2GEJ 104 X (100 k) ERJ2GEJ 105 X (100 k) ERJ2GEJ 104 X (100 k) ERJ2GEJ 107 X (100 k) ERJ2GEJ 108 X (100 k) ERJ2GEJ 109 X (100 k) ERJ2GEJ 100 X (100 k)	88181818888811111881888888888888888	26.1/11.2 20.7/1.8 17/3.6 26.2/3.8 11.3/2.3 31.9/16 12.8/5.8 32.7/18.5 28/18.5 28.2/16.8 24.1/17.5 15.2/10.1 11.7/10.6 11.7/11.3 11.7/14.2 23/4.1 24.7/2.3 2.5/18.6 3.3/11.1 9.7/11.7 15.9/13 17.5/13 17.5/13 17.5/13 17.5/13 17.5/13 17.7/14.2 22.4/13.8 11.4/11.3 21.8/5.7 21.8/4 17.9/6.2 10.1/3.3 11.7/2.3 3.8/18.6 10.4/16.9 8.8/18.4 14.3/5 1.7/3.7 2.1/8.3 6.9/3.8 9.2/3.3 11.3/7.1
C1 C2 C3 C50 C51 C52 C53 C54 C100 C101 C102 C103 C104 C106 C107 C108 C109	4550007680 4550007600 4030016930 4030017460 4030017460 4550006930 4030017460 4030016930 4030016930 4030016930 4030016930 4030016930 4030016930 4030016930 4030016930 4030016930	S.TAN S.TAN S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER S.CER	ECJ0EB1E102K ECJ0EB1E102K TEESVP 0J 225M8R ECJ0EB1E102K ECJ0EB1A104K ECJ0EB1A104K ECJ0EB1A104K ECJ0EB1A104K ECJ0EB1A104K ECJ0EB1A104K ECJ0EB1A104K ECJ0EB1A104K	B B B B B B B T B B T T T T B T	28.7/10 30.6/10 33.2/13.3 26.3/2.2 25.3/4.7 29.6/5.9 30.3/3.5 24.2/5.9 18.7/18.7 21.7/15.8 33.2/10.1 32.5/19.2 33.2/3.6 16/7.6 20.2/8.3 22.8/1.5

[MAIN UNIT]

[MAIN	I UNIT]			
REF NO.	ORDER NO.	DESCRIPTION	M.	H/V LOCATION
C110 C111 C111 C112 C113 C114 C116 C117 C200 C201 C202 C203 C204 C205 C206 C207 C208 C209 C210 C211 C212 C213 C214 C216 C300 C301 C301 C302 C303 C304 C310 C352 C353 C354 C355 C356 C357 C358 C356 C357 C358 C356	4030017420 4030017460 4030016930 4030016930 4030016930 4030016930 4030017460 4030016930 4030017460 4030016930 4030017400 4030016930 4030017730 4030017730 4030017400 4030017400 4030017400 4030017400 4030017400 4030017400 4030017400 4030017400 4030017400 4030017400 4030017400 4030017400 4030016930	S.CER ECJ0EC1H470J S.CER ECJ0EB1E102K S.CER ECJ0EB1A104K S.CER ECJ0EB1A104K S.CER ECJ0EB1A104K S.CER ECJ0EB1A104K S.CER ECJ0EB1A104K S.CER ECJ0EB1E102K S.CER ECJ0EB1E102K S.CER ECJ0EB1E102K S.CER ECJ0EB1A104K S.CER ECJ0EB1A273K S.CER ECJ0EB1A273K S.CER ECJ0EB1A104K S.CER ECJ0EB1H102K S.CER ECJ0EB1H102K S.CER ECJ0EB1A104K	B B B B B B B B B B B B B B B B B B B	29.1/7.3 22.9/16.2 26.4/19 24.1/18.4 27.8/14.2 31.8/18.5 24.1/16.6 18.2/15.9 16.8/14.2 21.2/13.5 13/17.5 17.8/8.3 12.1/15.7 2.3/18.4 2.5/17.7 2.3/18.4 2.5/17.7 2.3/18.4 2.5/17.7 11.3/15.2 11.1/18.9 7.5/13.9 19.1/15.9 23/2.3 18.9/7.1 10/4.9 2.1/9.2 1.7/4.6 8.7/4.9 2.8/1.9 2.8/1.9 2.8/2.8 2.8/1.9 13/2.7 7.2/2.4 9.6/1.8 4.7/4.2 5/1.4
J1	6510025550	S.CNR AXK824125WG	В	10.8/8.2
EP1 EP100 EP200 EP201 EP202 EP203 EP350 EP350 EP351 EP352	6910015370 6910015370 6910015370 6910015370 6910015370 6910015370 6910015370 6910015370 6910015370	S.BEA ACZ1005Y-102-T	B B B B B B B B B B B B B B B B B B B	33.2/11.7 33.2/15.8 13/15.9 15/12 13.7/15.4 8.8/11.7 23/3.2 4/6.3 6.2/5.6 11.3/3.4
	[Downloaded by RadioAmateur.EU]	

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side) S.=Surface mount

SECTION 8 MECHANICAL PARTS AND DISASSEMBLY

[CHASSIS PARTS]

-				
REF. NO.	ORDER NO.	DESCRIPTION	QTY	
J1	6510022671	Connector SMA-R235-1	1	
S702	2250000540	Encoder TP76D96E20-21.5F-B103-2888	1	
MP1	8210022430	2888 rear panel	1	
MP2	8610012870	Knob N342	1	
MP3	8610012890	Knob N-342 cover	1	
MP4	8610012880	Knob N343	1	
MP5	8930068280	2888 D-cap	1	
MP6	8930068290	2888 jack cap	1	
MP7	8930068300	2888 PTT rubber	1	
MP8	8930068350	2888 PTT plate	1	
MP9	8930069020	O-ring (BG)	1	
MP10	8930068360	2888 BP plate	1	
MP11	8930056310	2507 terminal holder	1	
MP12	8930054371	2372 terminal spring-1	2	
MP13	8310050391	2372 lock plate-1	1	
MP14	8930054490	2372 shaft	1	
MP15	8830000710	VR nut (G)	1	
MP16	8830000880	VR nut (I)	1	
MP17	8930053590	O ring (AG)	1	
MP18	8930039850	Sealing washer (J)	3	
MP19	8930057022	Thermally sheet (AE)-2	1	
MP20	8610007510	Knob spring No.7800	1	
MP21	8810008971	Screw FH BT M2 × 3.5 NI-ZC3	4	
MP22	8810009511	Screw PH BT M2 × 4 NI-ZC3	1	
MP23	8810008621	Screw PH BT M2 × 20 NI-ZK3	2	
MP24	8810009561	Screw PH BT M2 × 6 ZK3	4	
MP25	8810010091	Screw PH BT M2 × 12 NI-ZK3	2	
MP26	8810000101	Screw PH M2 × 4 ZK3	1	
MP27	8930069240	Insulation sheet (LI)	1	
MP28	8860001410	2888 ANT rug	1	
MP30	8930070220	Thermally sheet (BG)	1	
MP31	8510017870	2888 PA cover	1	

[MAIN UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
J700	6450002250	Connector HSJ1456-010320	1
J701	6450000131	Connector HSJ1102-018540	1
S700	2260002840	Switch SKHLLFA010	1
S701	2260002840	Switch SKHLLFA010	1
MP300	8510016470	2775 VCO case	1
MP301	8510016460	2775 VCO cover	1

[RF UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
J1000	6450000870	Connector HEC2711-01-020	1
MP100*	8410002610	2888 PA heat sink	1
MP101*	8510017610	Plate OG-542925	1
MP200*	8510017610	Plate OG-542925	1

[VCO UNIT]

REF. NO.	ORDER NO.	DESCRIPTION	QTY.
MP1	8510017470	2888 VCO case	1
MP2	8930069680	Ferrite sheet (P)	1

[LOGIC UNIT]

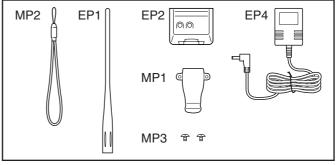
REF. NO.	ORDER NO.	DESCRIPTION		QTY.
W1	8900010520	Cable OPC-1033		1
DS1	5030002880	LCD HLM7972-010100		1
MC300	7700002310	Microphone EM-140		1
SP1	2510000840	Speaker CS028014-12		1
MP1	8210022570	2888 front panel assembly (incl. MP7)	[IC-91AD]	1
	8210022960	2888 front panel (A) assembly (incl. MP7)	[IC-91A]	1
MP2	8310066690	2888 window plate (A)	[IC-91A]	1
	8310066710	2888 window plate (C)	[IC-91AD]	1
MP3	8310065440	2888 plate		1
MP4	8210022450	2888 reflector		1
MP5	8930068310	2888 key		1
MP6	8930068320	2888 main seal		1
MP8	8930048840	2135 mic sponge		1
MP9	8810009510	Screw PH BT M2 × 4 NI-ZU		6
MP10	8930068870	2888 LCD sponge		1
MP11	8930068880	2888 window sheet		1
MP12	8930054221	2372 lens-1		1
MP13	8930046020	1123 sheet (A)-1		1
MP14	8930069550	2888 rubber sheet		2
MP20*	8510017840	Plate OG-321610G		1
MP21	8930070200	2888 codec plate		1
MP22	8930070170	AL sheet (AO)		1
MP23	8930070340	2888 codec sponge		1

[CODEC UNIT]

REF. NO.	ORDER NO.	DESCRIPTION		
_	Optional product	UT-121	[IC-91AD] only	1

[ACCESSORIES]

REF. NO.	ORDER NO.	DESCRIPTION		
EP1	Optional product	Antenna FA-S270C	1	
EP2	Optional product	Battery BP-217	1	
EP4	Optional product	Charger BC-167D [KOR], [AUS], [EXP-2]	1	
	Optional product	Charger BC-167A [USA], [EXP], [USA-1], [TPE], [EXP-1]	1	
MP1	8930068840	2933 belt clip	1	
MP2	8010018080	Strap belt HK-009	1	
MP3	8810010470	Screw trass M3 × 4 SUS SSBC	2	

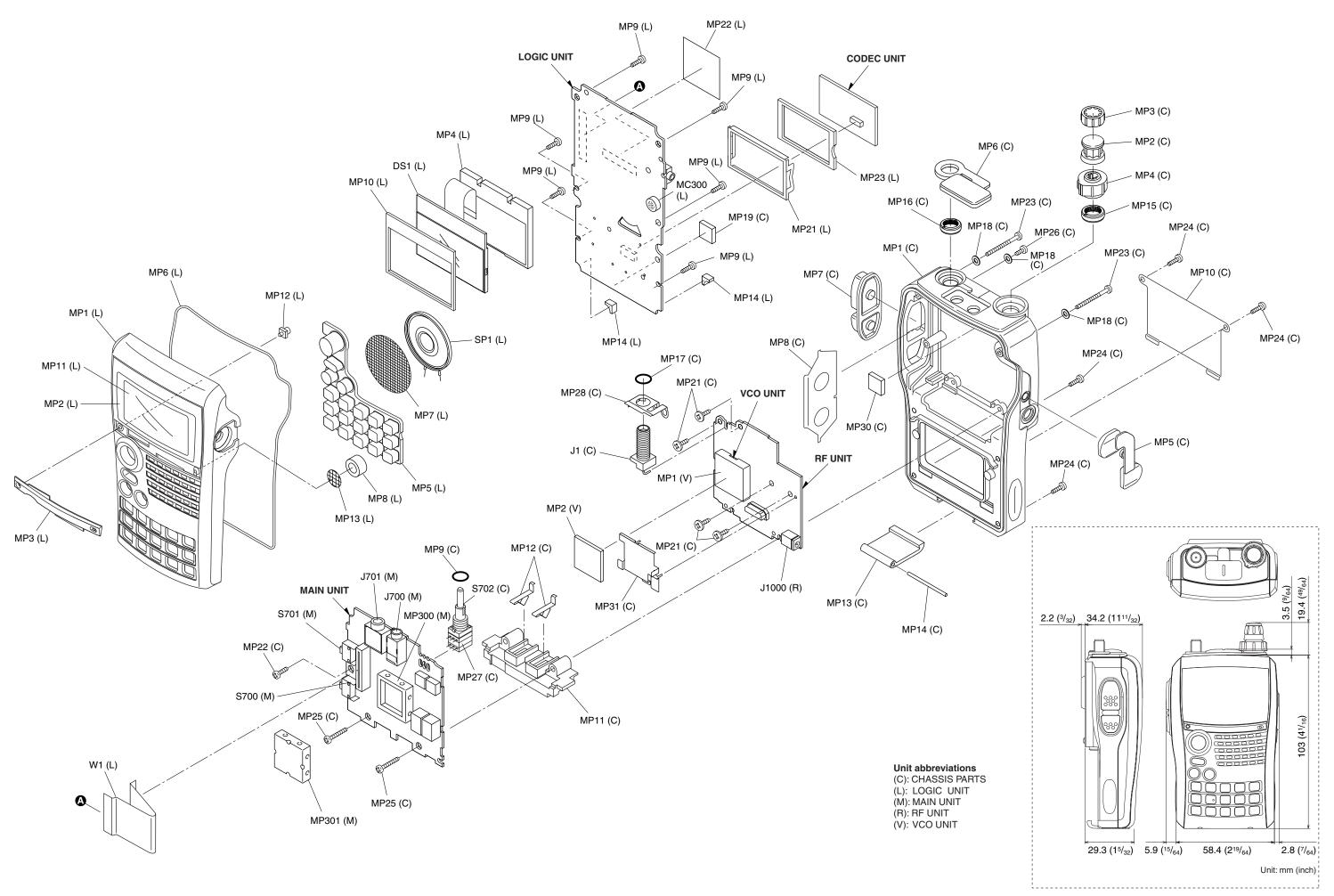


*: Refer to SECTION 10 BOARD LAYOUTS.

Screw abbreviations BT: Self-tapping FH: Flat head PH: Pan head ZK, NI-ZK3: Black

NI-ZU, NI-ZC3: Nickel-Zinc

SUS: Stainless



SECTION 9 SEMICONDUCTOR INFORMATION

• TRANSISTORS AND FET'S

2SA1362 GR (Symbol: AEG)	2SB1132 T100 R (Symbol: BAR)	2SB1201 S (Symbol: B1201)	2SB1462 R (Symbol: AR)	2SC4081 T106 S (Symbol: BS)
В	C	l c	В	B C C
2SC4215 O (Symbol: QO)	2SC4226 T1 R25 (Symbol: R25)	2SC5006 T1 (Symbol: 24)	2SC5195 (Symbol: 88)	2SC5624 (Symbol: VH-)
В	В	B C	В	E B
2SD2216J (Symbol: Y)	2SK3476 (Symbol: UC F)	2SK880 Y (Symbol: XY)	3SK318YB (Symbol: YB-)	HAT1026R (Symbol: 1026)
В	S	S G	G1 S	D G S S S S S
RD01MUS1 (Symbol: K2)	UNR9115J (Symbol: 6E)	UNR9211J (Symbol: 8A)	UNR9215J (Symbol: 8E)	XP1114 (Symbol: 7Q)
S S S S S S S S S S S S S S S S S S S	B C	B C	B C	B1 C1 E1 C2
XP1115 (Symbol: 9L)	XP1501 AB (Symbol: 5R)	XP4315 (Symbol: CB)	XP6401 (Symbol: 5O)	XP6501 AB (Symbol: 5N)
B1 C1 E B2 C2	B1 C1 C2	E1 C1 B1 B2 C2 E2	E1 C1 C1 B1 B2 C2	E1 C1 B1 B2 C2

• DIODES

1SS362 (Symbol: C3)	1SS364 (Symbol: BF)	1SV271 (Symbol: TG)	1SV286 (Symbol: T7)	1SV307 (Symbol: TX)
A C	A1 C	A	A C	A☐☐☐C
1SV308 (Symbol: TX)	1SV325 (Symbol: V8)	AVR-M1005C080MTABB (Symbol: N/Available)	HSB88AS (Symbol: C1)	HVC375B (Symbol: B8)
A C	A ☐ ☐ ☐ C		A C	A □ □ □ C □ □ C
HVC376B (Symbol: B9)	1SS400 (Symbol: A)	MA132WK (Symbol: MU)	MA133 (Symbol: MP)	MA2S077 (Symbol: S)
A □ □ □ □ C □ □ □ C	A□□□C	A1 C	A C	A
MA2S111 (Symbol: A)	MA2S728 (Symbol: B)	MA6S121 (Symbol: M2D)	RB060L 40 (Symbol: 36)	RB551V-30 (Symbol: D3G)
A□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	A C	□ → □ □ □ → □ □ → □ □ → □ □ → □ □ → □ □ □ → □ □ □ □ → □ □ □ □ → □ □ □ → □ □ □ → □ □ □ → □ □ □ → □ □ □ → □ □ □ → □ □ □ □ → □ □ □ → □ □ □ □ → □	A C	A C
SB07-03C (Symbol: J)				
A C				

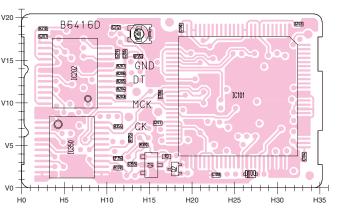
9 - 1

SECTION 10 BOARD LAYOUTS

10-2 MAIN UNIT 10-1 LOGIC UNIT EXT MIC EXT SP • TOP VIEW • TOP VIEW 05210 05210 2715 2712 2711 2723 8733 0 (F706) | | | | | | | V85 -J702 ALV V75 -8211 2219 8212 2220 8233 8211 8215 8211 C118 P109 C118 P109 R110 C120 R112 R111 S701 (750 E216 E220 E276 V65 -FIN.00 200 0 to LOGIC unit J401 SQL 2172 V55 -C6091 (0603) MC300 IC400 [454] MENU V45 -H30 H35 **10-3 RF UNIT** V40 -• TOP VIEW 08202 CHASSIS PWR V30 -MAIN CHASSIS BAND V25 -DS203 В VFO A MHz V20 -1 CLR 2 A SCAN 3 A/a LOW REC * SCOPE MODE V15 MR B S.MW 4 ◀ DUP O_{cq} 5 4 6 M.N SKIP **63**(l) V10 0S2**0**8 08206 08207 7 DSQ TONE CALLC 8 TS EMR DTMF.M 9 BK RX→CS vo ++ H5 H10 H20 H35 H45 J1000 DCIN

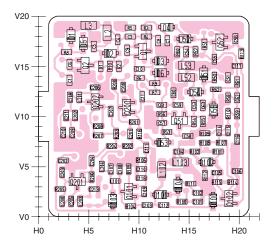
10-4 UT-121 (Optional Product; CODEC UNIT for IC-91AD)

TOP VIEW



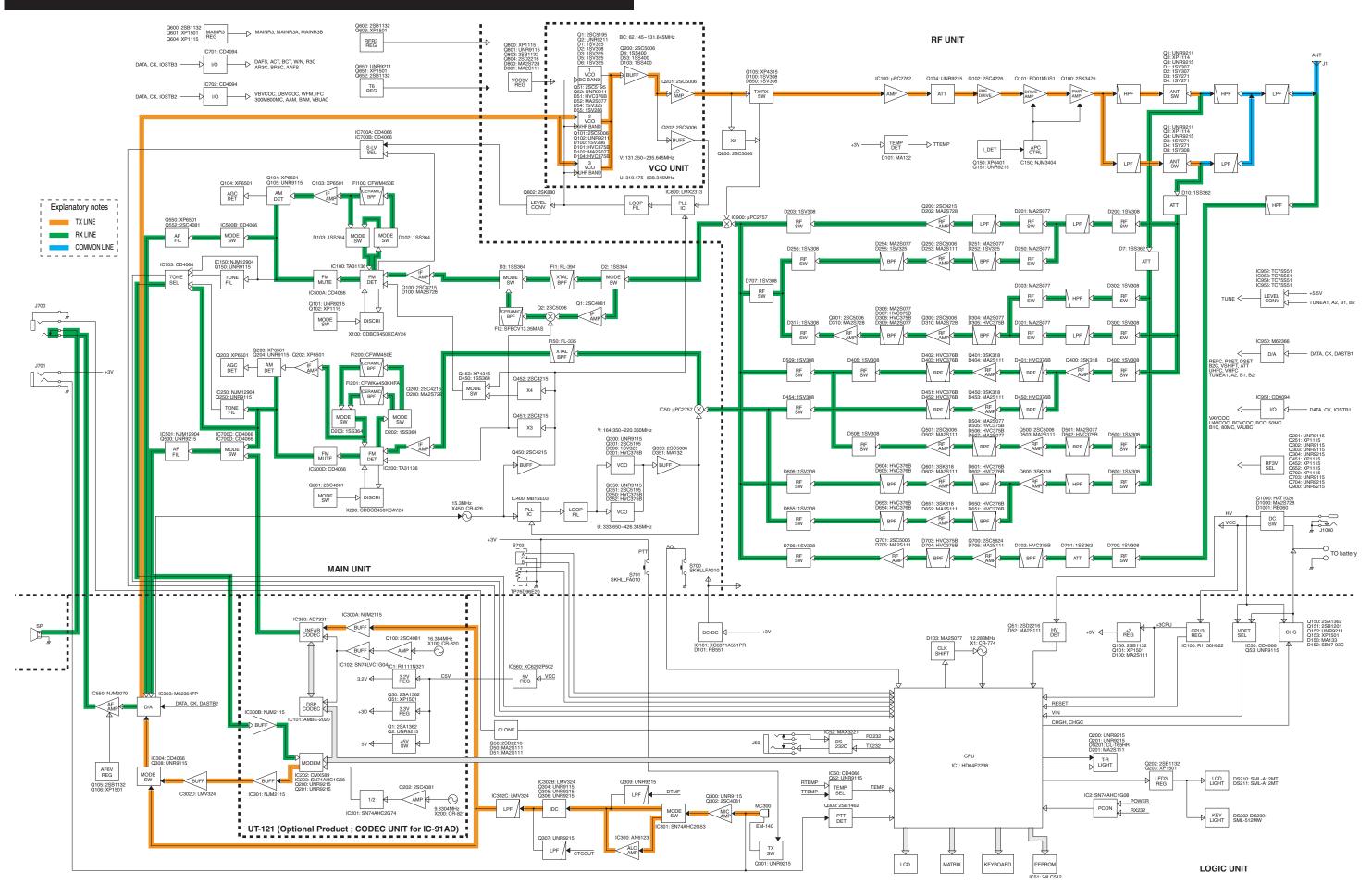
10-5 VCO UNIT

TOP VIEW



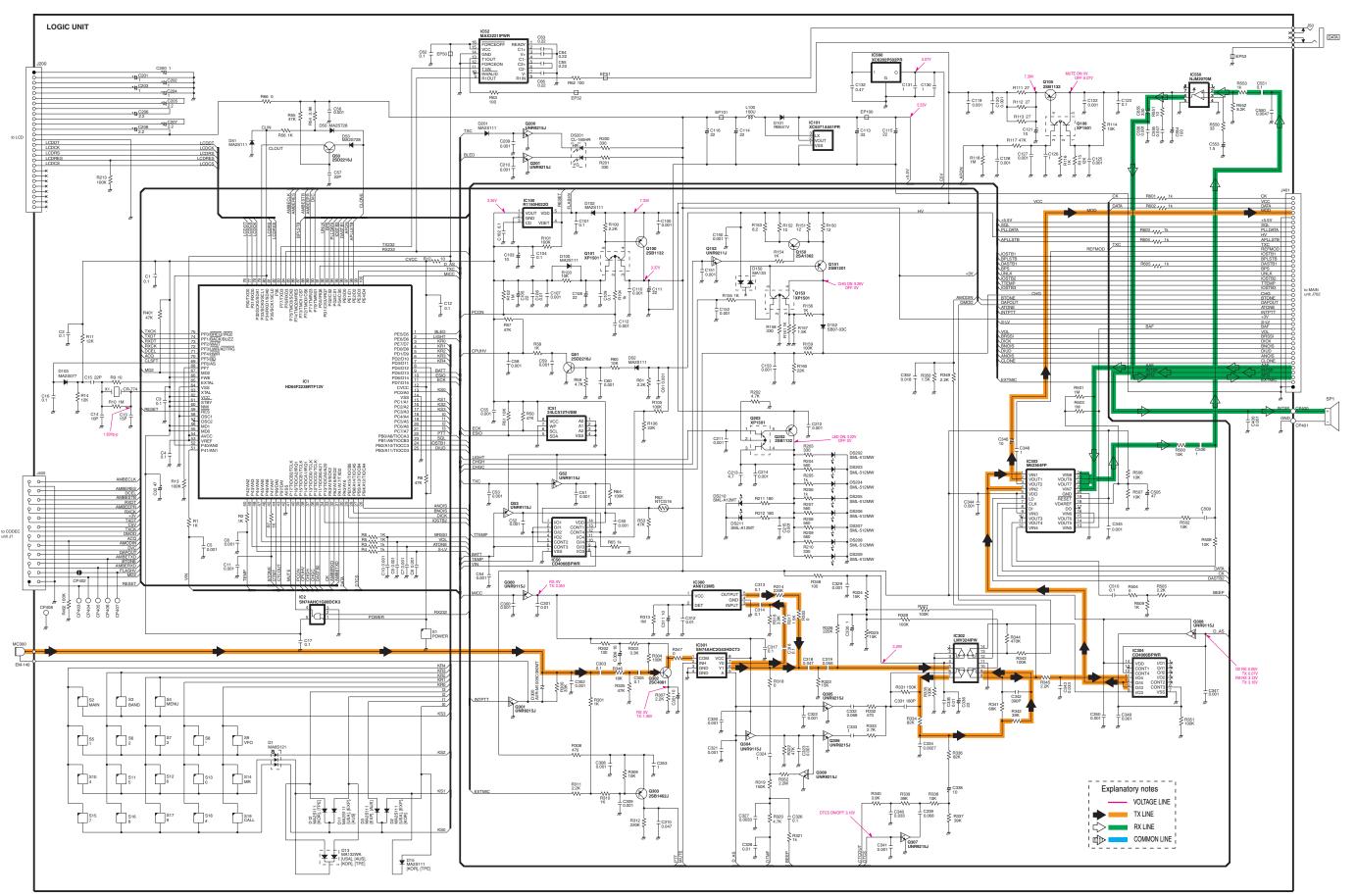
• BOTTOM VIEW (MAIN UNIT) VOL/DIAL • BOTTOM VIEW (LOGIC UNIT) • BOTTOM VIEW (UT-121 (Optional Product; CODEC UNIT for IC-91AD)) 4DT#P (214) (213) DATA IC100 J50 100000000000 1051 Q106 C126 C127 C128 C118 **Q**102 0.00 0.00 0.00 0.00 **40** R550 R553 \$\frac{1}{2}\$\frac • BOTTOM VIEW (RF UNIT) Q100 LOGIC unit W2 W3 • BOTTOM VIEW (VCO UNIT) - V20 C132 B6415D ملاسم 10560 H15 H20 Downloaded by RadioAmateur.EU

SECTION 11 BLOCK DIAGRAM

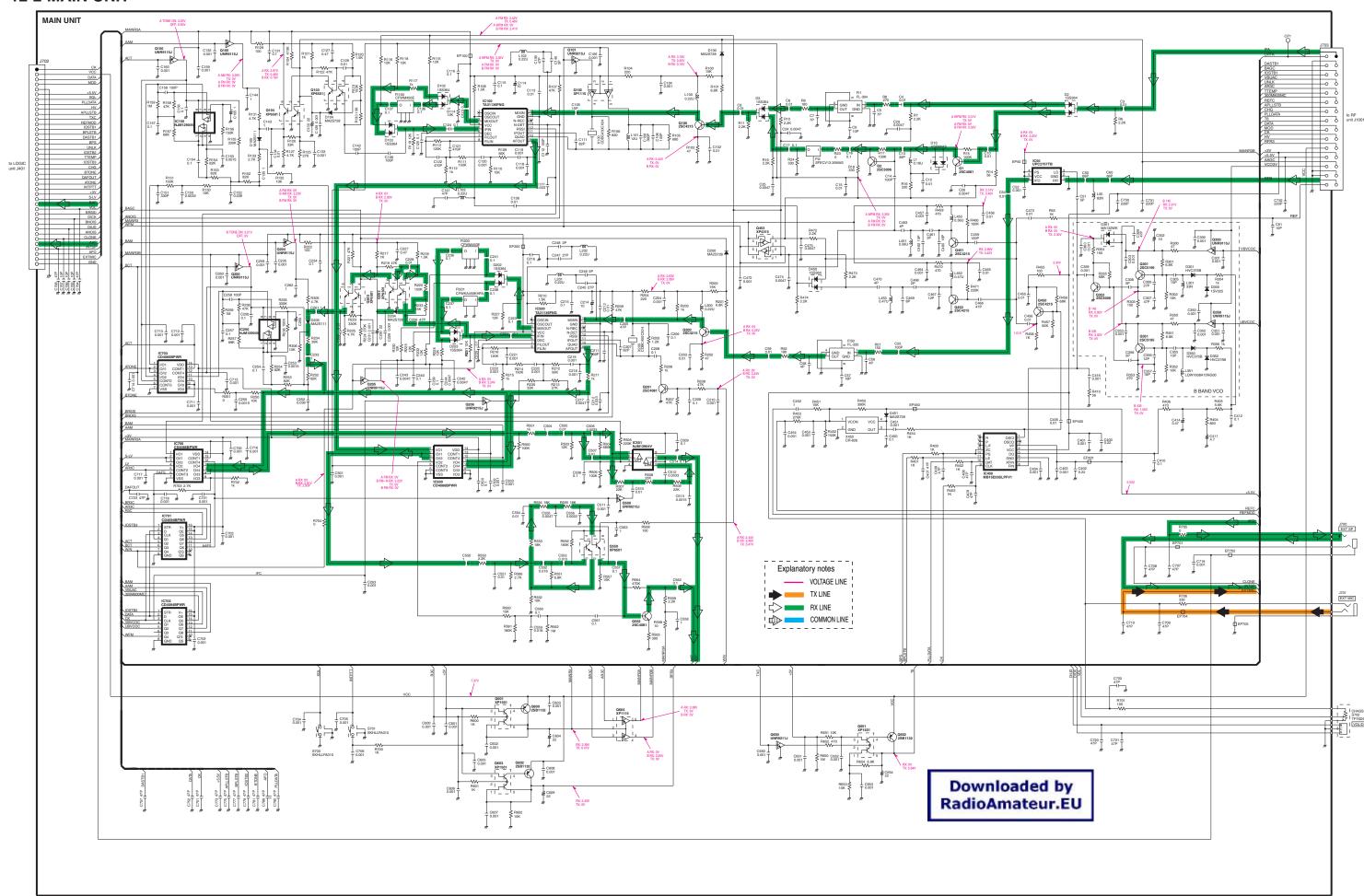


SECTION 12 VOLTAGE DIAGRAMS

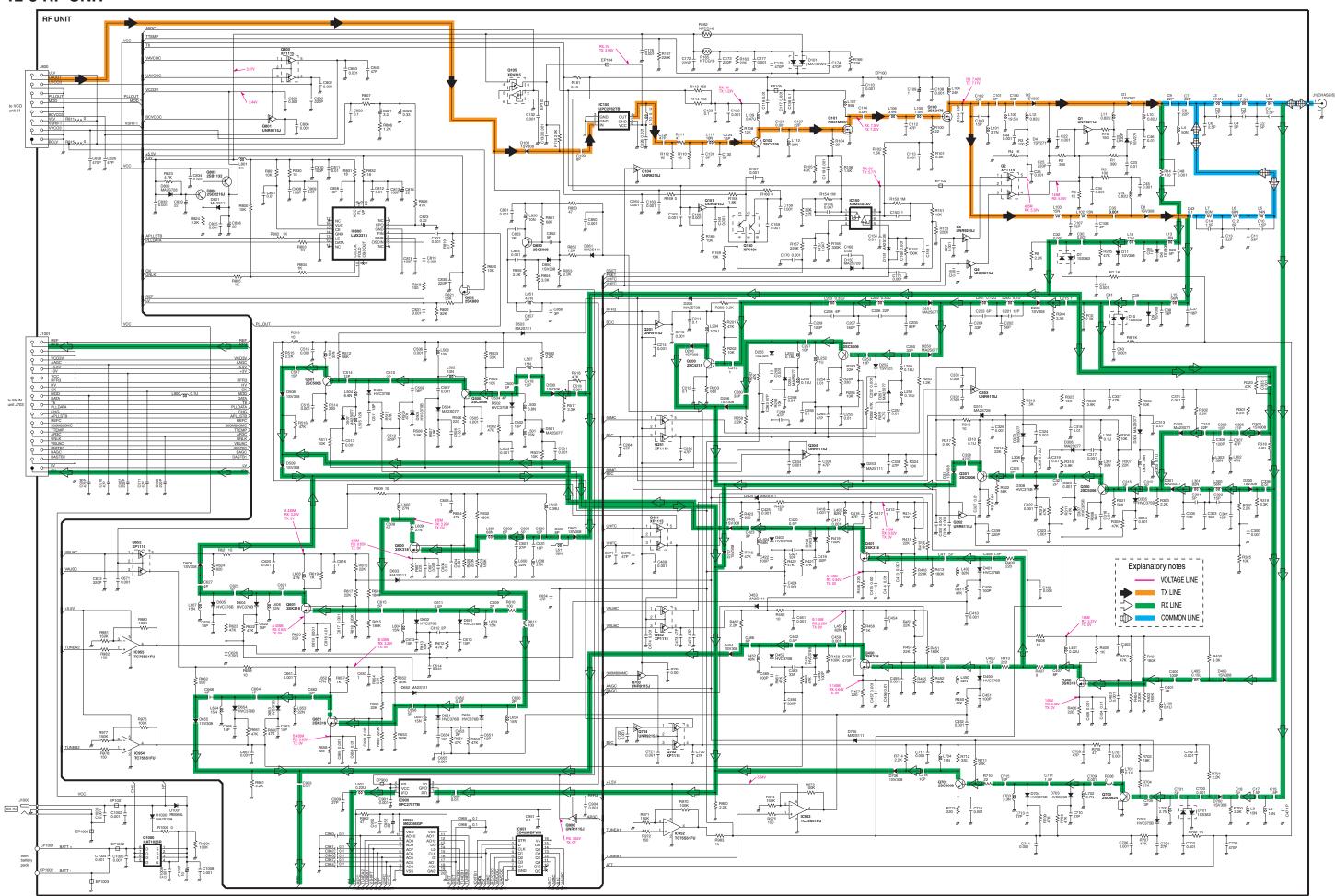
12-1 LOGIC UNIT

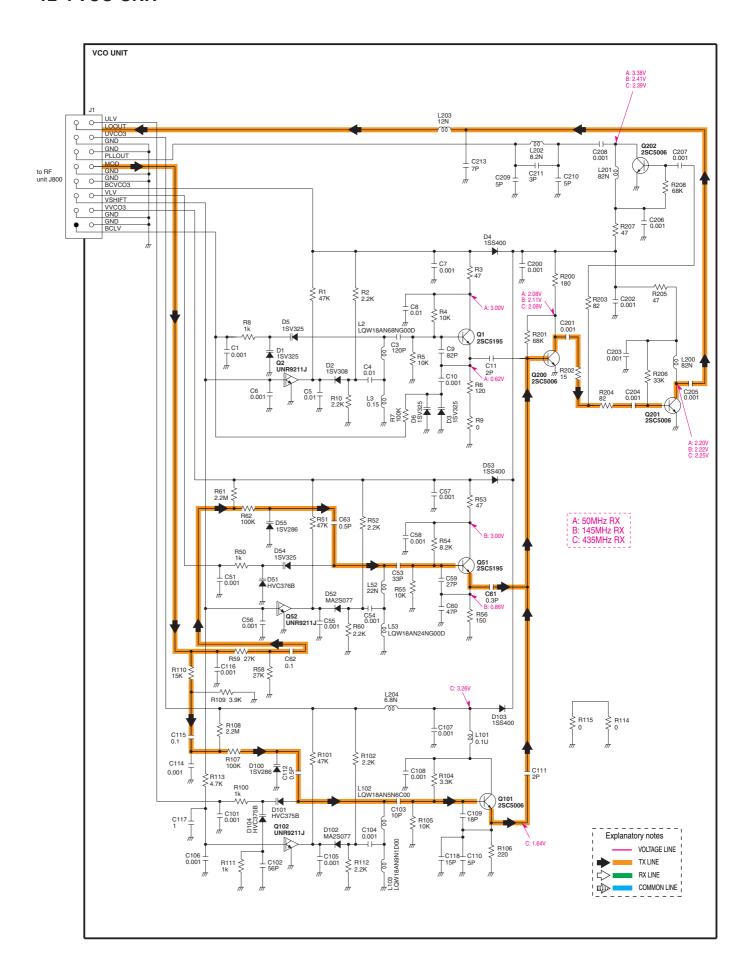


12-2 MAIN UNIT

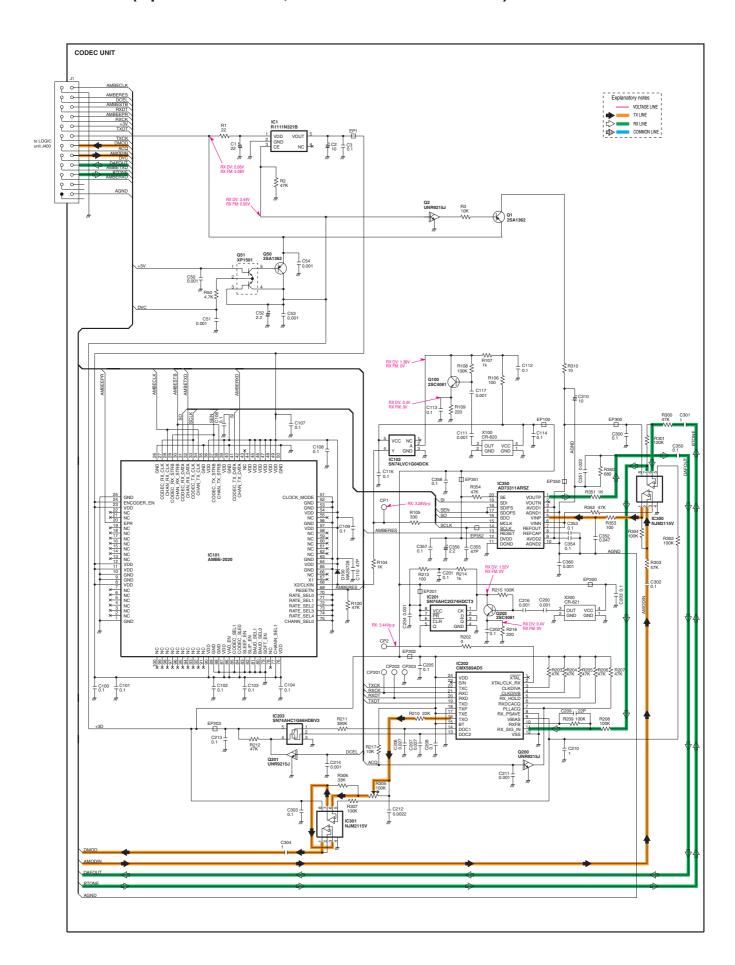


12-3 RF UNIT





12-5 UT-121 (Optional Product; CODEC UNIT for IC-91AD)



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